**BASIC CHASSIS** 

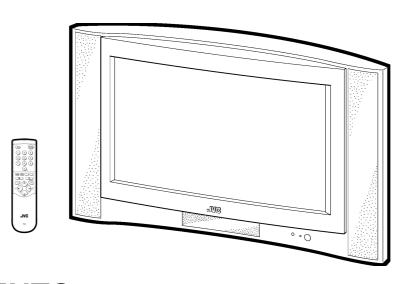
MF II

# JVC

# SERVICE MANUAL

# **COLOUR TELEVISION**

AV32X25EUS / AV32X250EUS AV32X25EIGY / AV32X25EIGY AV28X25EIGY AV28X25EIGY AV28X25EIGY



InteriArt Natural Vision T-V LINK

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# **SPECIFICATIONS**

	Content				
ltem	AV32X25EUS / AV32X250EUS / AV28X25EUS	AV 32 X2 5EIG Y / AV 28 X2 5EIG Y AV 32 X2 5EKGY / AV 28 X 25 EKGY			
Dimensions ( W×H×D )	(32"): 85.5cm × 55.0cm × 56.8cm (28"): 78.0cm × 50.9cm × 49.9cm	(32"): 85.5cm×55.0cm×56.8cm (28"): 78.0cm×50.9cm×49.9cm			
Mass	(32"): 54.2kg/(28"): 40.2kg	(32"): 54.2kg/(28"): 40.2kg			
TV RF System	CCIR ( B/G, D/K, L, L',I)	CCIR(I)			
Colour System	PAL / SECAM / NTSC (Only in EXT mode)	PAL / NTSC (Only in EXT mode)			
Stereo System	A2 (B/G, D/K) / NICAM (B/G, I, D/K, L)	NICAM(I)			
Teletext System	Fastext (UK system) / TOP (German system) WST(world standard system)	Fastext (UK system) WST(world standard system)			
Receiving Frequency	<b>VHF</b> : 47MHz ~ 470MHz	VHF: 47MHz ~ 470MHz(El model)			
	<b>UHF</b> : 470MHz ~ 862MHz	<b>UHF</b> : 470MHz ~ 862MHz(EK/EI model)			
	French cable TV channel of broadcast frequencies 116~172MHz & 220~469MHz				
Intermediate Frequency	<b>VIF</b> Carrier: 38.9 MHz(B/G, D/K, I, L) / 33.95 MHz	VIF Carrier: 38.9MHz			
	SIF Carrier: 33.4MHz(5.5MHz: B/G)	SIF Carrier: 32.9MHz(6.0MHz)			
	32.9MHz(6.0MHz : I )	<del></del>			
	32.4MHz(6.5MHz : L, D/K) 40.45MHz (6.5MHz : L')	<del></del>			
Colour Sub Carrier Freq.	<b>PAL</b> : 4.43MHz	<b>PAL</b> : 4.43MHz			
	<b>SECAM</b> : 4.40625MHz / 4.25MHz	<del></del>			
	NT SC: 3.58MHz / 4.43MHz	NT SC: 3.58MHz / 4.43MHz			
Power Input	AC 220V~240V,50Hz				
Power Consumption	187W (Max) / 178W (Max) (32") 132W (Avg) / (28") 125W (Avg)	(32") 187W (Max) / (28") 178W (Max) 132W (Avg) / (28") 125W (Avg)			
Aerial Input Term	75 Ω un ba lanc ed, Coaxial				
Picture Tube	(32"): Viewable are a 76cm (measured diagonally)	(32"): Viewable area 76cm (measured diagonally)			
	(28"): Viewable are a 66cm (measured diagonally)	(28"): Viewable area 66cm ( meas ured diagonally)			
High Voltage	31.0kV +1.0kV (at zero beam current)				
Speaker	13cm × 6.5cm, Oval type × 2				
Au dio Output	7.5W + 7.5W				
EXT-1/EXT-2/EXT-3 (IN/OUT)	21-pin Euro connector (SCART socket) × 3				
EXT-4 (Input)	Video: Vp-p 75 Ω (RCA pin jack)	Ω (RCA pin jack)			
	CA pin jack)				
	Provided, when terminated with $75\Omega$ )				
	$C$ : 0.3V p-p (Burst signal, when terminated with $75\Omega)$				
AUDIO OUT (Variable)	0~1Vms, Low Impedance (RCA pin jack×2)				
Headphone jack	Stereo minijack ( $\phi$ 3.5mm )	1			
Remote Control Unit	RM-C54 (AAA/R03 dry cell battery × 2)	RM-C55 (AAA/R03 dry cell battery×2)			

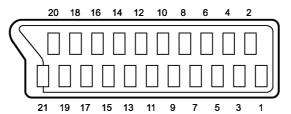
Design & specifications are subject to change without notice.

# ■21-pin Euro connector (SCART socket): EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), Low impedance	O (TV OUT)	O (LINE OUT)	NC
2	AUDIO R input	500mVrms(Nominal), High impedance	0	0	0
3	AUDIO L output	500mVrms(Nominal), Low impedance	O (TV OUT)	O (LINE OUT)	NC
4	AUDIO GND		0	0	0
5	GND (B)		0	0	0
6	AUDIO L input	500mVrms(Nominal), High impedance	0	0	0
7	B input	700mV <sub>B-W</sub> , 75Ω	0	0	NC
8	FUNCTON SW (SLOW SW)	Low: 0-3V, High: 8-12V, High impedance	0	0	0
9	GND (G)		0	0	0
10	SCL3		NC	0	NC
11	G input	700mV <sub>B-W</sub> , 75Ω	0	0	NC
12	SDA3		NC	0	NC
13	GND (R)		0	0	0
14	GND (Y <sub>S</sub> )		0	0	NC
15	R / C input	$R:700\text{mV}_{\text{B-W}},75\Omega$	0	0	0
		$C:300\text{mV}_{\text{P-P}},75\Omega$	(only R)		(only C)
16	Ys input	Low: 0 - 0.4, High: 1 - 3V, 75Ω	0	0	NC
17	GND(VIDEO output)		0	0	0
18	GND(VIDEO input)		0	0	0
19	VIDEO output	$1V_{P-P}$ (Negative going sync), 75 $\Omega$	O (TV)	O (LINE OUT)	NC
20	VIDEO / Y input	$1V_{P-P}$ (Negative going sync), 75 $\Omega$	0	0	0
21	COMMON GND		0	0	0

[Pin assignment]



# SAFETY PRECAUTIONS

### AV32X25EUS / AV32X250EUS / AV28X25EUS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (A) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (⊥) side GND, the ISOLATED(NEUTRAL): (⅓) side GND and EARTH: (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- 7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10 kΩ 2W resistor to the anode button.
- 8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

# 9. Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock

### (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(.... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

### (2) Leakage Current Check

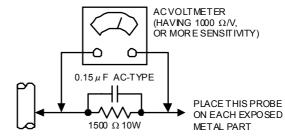
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a  $1500\Omega$  10W resistor paralleled by a  $0.15\mu F$  AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



GOOD EARTH GROUND

# SAFETY PRECAUTIONS

AV32X25EIGY / AV32X25EKGY AV28X25EIGY / AV28X25EKGY

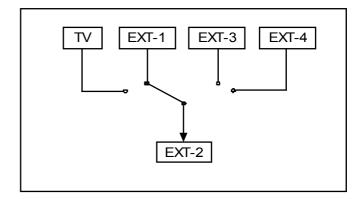
- The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which
- have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by ( $\triangle$ ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

# **WARNING**

- 1. The equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

# **FEATURES**

- New chassis design enable use of an interactive on screen control.
- The TELETEXT SYSTEM has a built-in FASTEXT (UK system), TOP (German system) and WST (world standard system) system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism.
   In addition, BILINGUAL programs can be heard in their original language.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.



# MAIN DIFFERENCE LIST

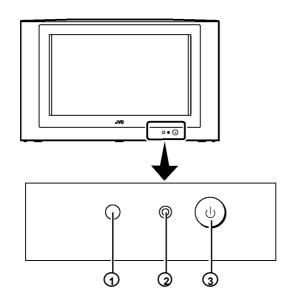
҈Ѧ	Model Name Part Name	AV 32 X2 5E US AV 32 X2 50E US AV 32 X2 5EIG Y	AV 32 X2 5EKGY	AV 28 X2 5E US AV 28 X2 5EIG Y	AV 28 X2 5EKGY
	MAIN PWB ASSY	SMF-1404A-U2	SMF-1944A-U2	SMF-1403A-U2	SMF-1943A-U2
	POWER & DEF PWB ASSY	SMF-2404A-U2	<b>—</b>	SMF-2403A-U2	←
	CRT SOCKET PWB ASSY	SMF-3404A-U2	•	SMF-3403A-U2	•
	FRONT CONTROL PWB ASSY	SMF-8404A-U2	<b>+</b>	SMF-8403A-U2	<b>←</b>
	SIDE CONTROL PWB ASSY	SMF-8104A-U2	•	SMF-8103A-U2	<b>←</b>
$\triangle$	ITC TUBE	W76ERF042X044	<b>+</b>	W66QDE993X925	<b>←</b>
⚠	DEGAUS SING COIL	QQW0066-001	<b>←</b>	QQW0100-001	<b>←</b>
⚠	ROTATION COIL	QQW0130-001	<b>←</b>		
$\triangle$	FBT	QQH0127-001	<b>←</b>	QQH0126-001	<b>←</b>
$\triangle$	REAR COVER	LC11316-001A-U	<b>←</b>	LC11282-001C-U	<b>←</b>
	CUSHION ASSY	LC11373-002A-U	<b>←</b>	LC11318-002A-U	-
	PACKING CASE	AEM1002-079-E	<b>←</b>	AEM1002-A76-E	-
	CORNER POST			AEM3119-003A-E	<b>←</b>

҈Ѧ	Model Name Part Name	AV 32 X2 5E US AV 32 X2 50E US	AV 32 X2 5EIG Y AV 32 X2 5EKGY	AV 28 X2 5E US	AV 28 X2 5EIG Y AV 28 X2 5EKGY
⚠	FRONT CABINET ASSY	LC11360-004A-U	LC11360-003A-U	LC11313-004B-U	LC11313-003B-U
⚠	POWER CORD	QMPK160-185-JC	QMPN130-185-JC	QMPK160-185-JC	QMPN130-185-JC
	JVC MARK	LC41250-002C-C	LC41250-001C-C	LC41250-002A-C	LC41250-001C-C
	REMOTE CONTROL UNIT	RM-C54H-1C	RM-C55H-1C	RM-C54H-1C	RM-C55H-1C

⚠	Model Name Part Name	AV32X25EUS	AV32X250EUS	AV32X25EIGY	AV32X25EKGY	AV28X25EUS	AV28X25EIGY	AV28X25EKGY
⚠	INST BOOK	LCT1184-001A-U LCT1185-001A-U LCT1186-001A-U	LCT1185-001A-U	LCT1187-001A-U	•	LCT1184-001A-U LCT1185-001A-U LCT1186-001A-U	LCT1187-001A-U	•
⚠	RATING LABEL	LC11414-003A-U	LC1 1372-004A-U	LC1 1364-008A-U	LC1 1364-007A-U	LC11414-004A-U	LC11364-010A-U	LC1 1364-009A-U
	EURO LABEL	AEM1064-017-U	AEM1064-020-U	AEM1064-019-U	AEM1064-018-U	AEM1064-021-U	AEM1064-023-U	AEM1064-022-U
⚠	WARNING LABEL	LC30789-002B-U				LC30789-002B-U		

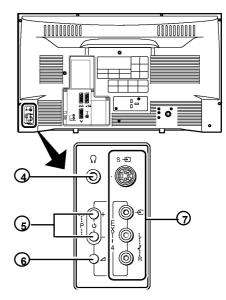
# **FUNCTIONS**

(FRONT)



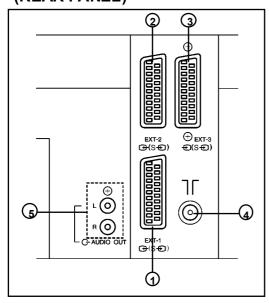
- 1 Remote control sensor
- 2 Power lamp
- 3 Main power button
- 4 Headphone jack (mini jack)

### (SIDE)



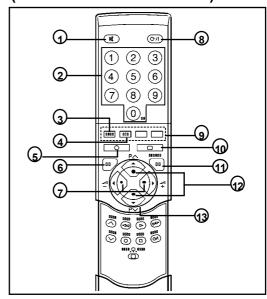
- $\bigcirc$  P V/ $\land$  buttons / -/+ buttons
- (7) EXT-4 terminal

### (REAR PANEL)



- ① EXT-1(IN/OUT) Terminal
- 2 EXT-2(IN/OUT) Terminal
- 3 EXT-3(IN/OUT) Terminal
- 4 Aerial Socket
- (5) Audio out put terminal

### (REMOTE CONTROL UNIT)



- ① Muting Key
- 2 Number Key
- 3 ZOOM Key
- 4 Hyper Sound Key
- 5 Information Key
- 6 TV Key
- 7 Volume -/+ Key
- 8 Standby (power) Key
- 9 Colour Key
- 10 TEXT Key
- 1 K/MENU Key
- PR Channel V/∧Key
- $\bigcirc$  FUNCTION ( $\bigcirc$  / $\bigcirc$  / P  $\land$  / P  $\lor$  ) Key

# SPECIFIC SERVICE INSTRUCTIONS

### DISASSEMBLY PROCEDURE

### **REMOVING THE REAR COVER**

- 1. Unplug the power cord.
- 2. Remove the 13 screws marked A as shown in the Fig. 1.
- 3. Withdrawthe rear cover toward you.

### REMOVING THE SIDE CONTROL JACK ASSEMBLY

- After removing the rear cover.
- 1. Remove the screw marked **B** as shown in the Fig.1.
- 2. While slightly raise the side control jack assembly, remove the 2 claws under the side control jack assembly.
- Disconnect the connector "SR", "SL", "S", "F" and "CN016" as shown in Fig 2.

### REMOVING THE SIDE CONTROL PWB

- After removing the rear cover and side control jack assembly.
- 1. Remove the 3 claws **C** from back side of the side control jack assembly as shown in Fig. 2.
- 2. Pull out the SIDE CONTROL PWB.

### **REMOVING THE CHASSIS**

- After removing the rear cover.
- Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet
- Withdrawthe chass is backward.
   (If necessary, take off the wire clamp, connectors etc.)

### **REMOVING THE POWER & DEF. PWB**

- After removing the CHASSIS.
- 1. Remove the 3 screws marked **D** as shown in the Fig.1.
- Remove the POWER & DEF. PWB upper. (If necessary, take off the wire clamp, connectors, etc.)

### **REMOVING THE SPEAKER**

- After removing the rear cover.
- Remove the 2 screws marked E, and remove the speaker holder as shown in Fig. 1.

NOTE: When removing the screws marked E of the speaker holder remove the lower side screw first, and then remove the upper one.

- 2. Remove the 2 screws F attaching the speaker.
- 3. Follow the same steps when removing the other hand speaker.

### REMOVING THE AV TERMINAL BOARD

- After removing the rear cover.
- 1. Remove the 3 screws marked **G** as shown in the Fig. 1.
- 2. Remove the 2 claws marked **H** under the CHASSIS as shown in Fig. 3.
- Remove the AV TERMINAL BOARD slightly in the direction of arrow I as shown in Fig. 3.

### **CHECKING THE PW BOARD**

To check the back side of the PW Board.

- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- Erect the chassis vertically so that you can easily check the back side of the PW Board.

### [CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

### WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

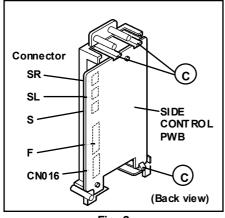


Fig. 2

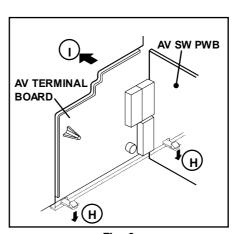


Fig. 3

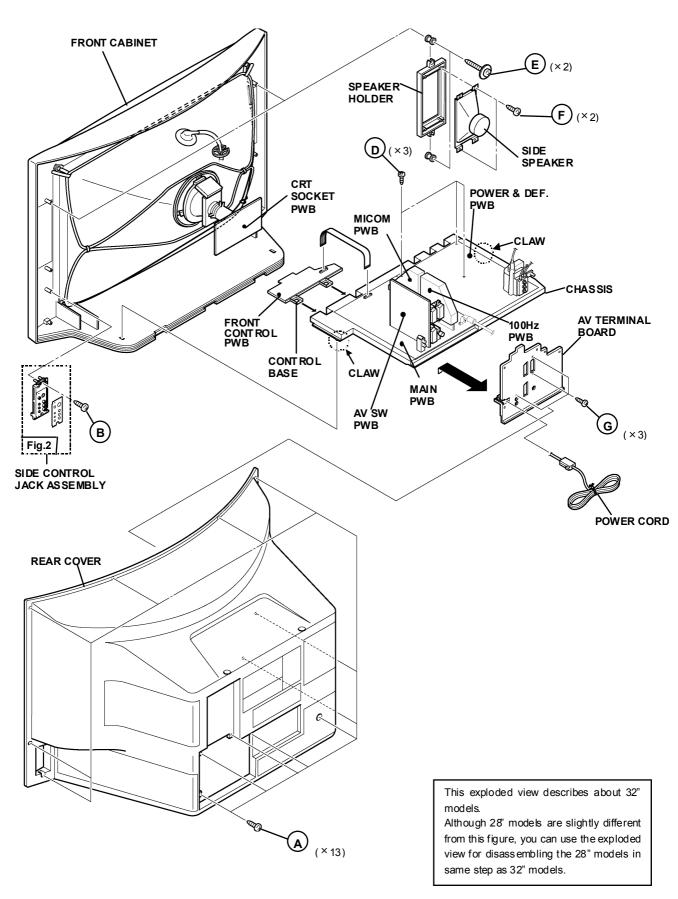


Fig. 1

### **REMOVING THE CRT**

- \* Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc.,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 8).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.9.
- Remove 4 screws marked by arrows with a box type screw driver as shown in Fig. 9.
- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig. 10.
- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- \* The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

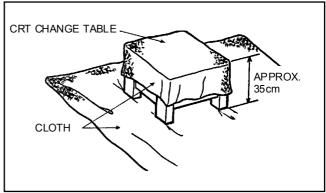


Fig. 8

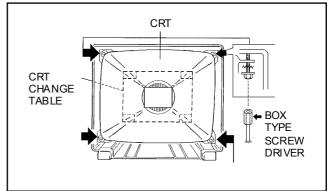


Fig. 9

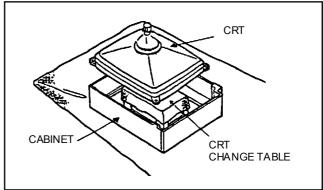


Fig. 10

### REPLACEMENT OF CHIP COMPONENT

### **■ CAUTIONS**

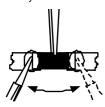
- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

### **■ SOLDERING IRON**

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30 w soldering iron is recommended for easily removing parts.

### ■ REPLACEMENT STEPS

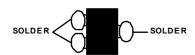
- 1. How to remove Chip parts
- ◆ Resistors, capacitors, etc
  - (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with tweezers and remove the chip part.



- ♦ Transistors, diodes, variable resistors, etc
  - (1) Apply extra solder to each lead.



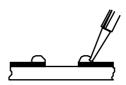
(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



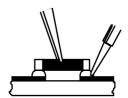
Note: After removing the part, remove remaining solder from the pattern.

### 2. How to install Chip parts

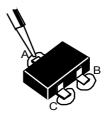
- Resistors, capacitors, etc
  - (1) Apply solder to the pattern as indicated in the figure.



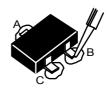
(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



- ♦ Transistors, diodes, variable resistors, etc
  - (1) Apply solder to the pattern as indicated in the figure.
  - (2) Grasp the chip part with tweezers and place it on the solder.
  - (3) First solder lead A as indicated in the figure.



(4) Then solder leads B and C.



### REPLACEMENT OF MEMORY ICS

### 1. Memory ICs

This TV us e memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

### 2. Procedure for replacing memory ICs

# PROCEDURE (1) Power off Switch the power off and unplug the power cord from the outlet. (2) Replace ICs. Be sure to use memory ICs written with the initial data values. (3) Power on Plug the power cord into the outlet and switch the power on.

### (4) Check and set SYSTEM CONSTANT SET:

### \* It must not adjust without signal.

- 1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously.
- 2) The SERVICE MENU screen of Fig. 1 will be displayed.
- 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
- 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key.
- 5) Press the MENU key to memorize the setting value.
- Press the INFORMATION key twice, and return to the normal screen.

### (5) Setting of receive channels

Set the receive channel.

For setting, refer to the OPERATING INSTRUCTIONS.

### (6) User settings

Check the user setting values of Table 2, and if setting value is different, set the correct value.

For setting, refer to the OPERATING INSTRUCTIONS.

### (7) Setting of SERVICE MENU

Verify the setting items of the **SERVICE MENU** of Table 3, and reset where necessary.

For setting, refer to the SERVICE ADJUSTMENTS.

### SERVICE MENU

1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET 6. STATUS
7. PIP 8. ——
9. SHIPPING (OFF) 0. BUS FREE
1-9: SELECT I: EXIT

Fig.1



Fig.2

### NAME OF REMOTE CONTROL KEY

Names of key	key	
INFORMATION	<b>(</b>	
MUTING	汝	
MENU	(K)	
FUNCTION UP/DOWN	(\$\$\$)	
FUNCTION -/+	<b>⊙⊙</b>	

### SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value	Setting item	Setting content	Setting value
DESTINATION	→FII→ EK → EI—	AV32 X25EU S AV32 X25 0EUS AV28 X25EU S EU	PIC&TEXT	→ NO → YES ─	NO
DESTINATION		AV32 X25EK GY AV28 X25EK GY EK AV32 X25EIGY AV28 X25EIGY EI	DOLBY	NO - YES	NO
CRT TYPE	16:9    4:3	16:9	BBE	NO → YES	YES
PURITY	NO YES	NO	PROGRESSIVE	NO YES	NO
PICTURE TILT	NO YES	YES	TDA9178	NO - YES	NO
DIGIPURE PRO	NO -YES	NO	TONEIC	→ NO → YES ─	NO
PIP	NO→1TUNER→2TUNER	NO	FLAT	→ NO → YES ─	YES

### **USER SETTING VALUES (TABLE 2)**

PICTUR	E SETTING	EXT S	ETTING
TINT	COOL	ID	BLANK
CONTRAST / BRIGHT SHARP / COLOUR	REFER to VSM PRESET	S-IN DUBBING	BLANK EXT-1→EXT-2
PICTURE	FEATURES	FEA1	TURES
DIGITAL VNR	AUTO	SLEEP TIMER BLUE BACK	OFF ON
COLOUR SYSTEM	TV : According to preset CH EXT : AUTO		
4:3 AUTO ASPECT	PANORAMIC		
SOUND	SETTING	INS.	TALL
BASS / TREBLE / BALANCE	CENTER	LANG UAGE	ENGLISH
HYPER SOUND BBE	OFF ON	EDIT/MANUAL	PRESET CH only The others : BLANK

**SERVICE MENU SETING ITEMS (TABLE 3)** 

Setting item	Setting value	Setting item	Setting value
1. IF	1. VCO 2. ATT ON/OFF		1. V-SHIFT 2. V-SIZE 3. H-CENT
2. V / C	1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. BRIGHT 6. CONTRAST 7. COLOUR 8. HUE 9. SHARP 10. VCO ADJ.	4. DEF.	4. H-SIZE 5. TRAPEZ 6. EW-PIN 7. COR-PIN 8. COR-UP 9. COR-LO 10. ANGLE 11. BOW 12. V-S.CR 13. V-LIN
	11. VID AGC 12. SYC SLI 13. A MOVIE	5. VSM PRESET	1. CONT. 2. BRIGHT 3. SHARP
3.AUDIO (Do not adjust)	1. ERR LIMIT 2. A2 ID THR 3. Q-PEAK	COOL NORMAL WARM	4. COLOUR 5. HUE 6. WDR R 7. WDR G
9.SHIPPING (Do not adjust)	ON/OFF		8. WDR B
		6.STATUS (Do not adjust)	VPS PDC

\* : Do not adjust

# **SERVICE ADJUSTMENTS**

### BEFORE STARTING SERVICE ADJUSTMENT

- There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Make sure that connection is correctly made to AC power source
- 4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
- 5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

Preparation for adjustment (presetting):
 Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

### Setting position

PICTURE MODE (VSM)	NORMAL
SLEEPTIMER	OFF
TONE BALAN CE	CENTER
ZOOM	FULL

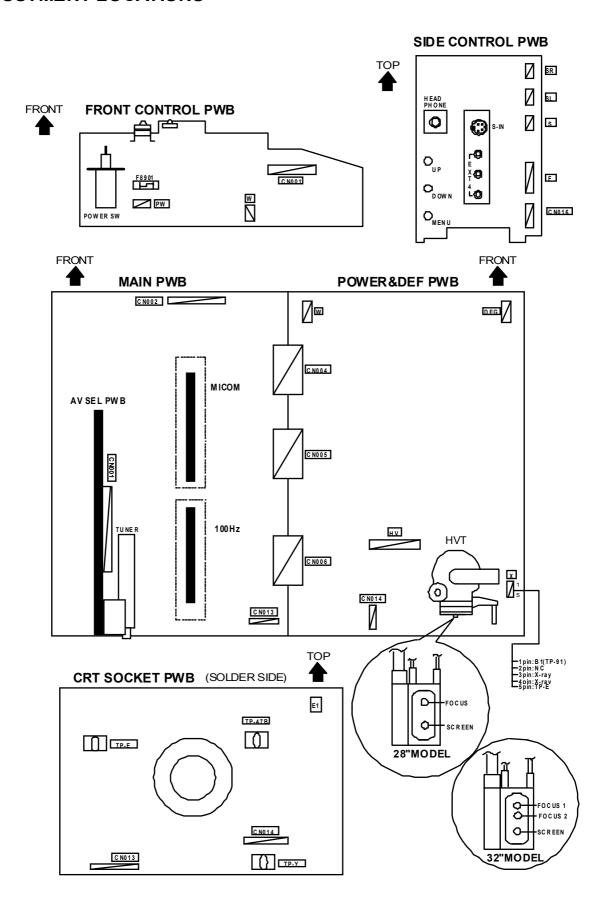
### MEASURING INSTRUMENT AND FIXTURES

- 1. DC voltmeter (or digital voltmeter)
- 2. Oscilloscope
- 3. Signal generator (Pattern generator) [PAL / SECAM / NTSC]
- 4. Remote control unit

### **ADJUSTMENT ITEMS**

- Checking items.
- Adjustment of FOCUS & SCREEN
- VSM preset adjust setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- AUDIO circuit adjustment. (Do not adjust)

### **ADJUSTMENT LOCATIONS**



### **BASIC OPERATION SERVICE MENU**

### 1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

### 2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

(1) 1. IF · · · · · This mode adjusts the setting values of the IF circuit.

(2) 2.V/C ..... This mode adjusts the setting values of the VIDEO / CHROMA circuit.

(3) 3. AUDIO · · · · · This mode adjusts the setting values of the multiplicity SOUND circuit.

(4) **4. DEF** ...... This mode adjusts the setting values of the DEFLECTION circuit for each as pect mode given below.

FULL (100/120Hzi)
PANORAMIC (100/120Hzi)
SUBTITLE (100/120Hzi)
COMPRESS (Fixed value) (100/120Hzi)

(5) 5.VSM PRESET ..... This mode adjusts the initial setting values of COOL, NORMAL and WARM.

(VSM: Video Status Memory)

### 3. BASIC OPERATION OF SERVICE MENU

### (1) How to enter SERVICE MENU

Press the "INFORMATION" key and the "MUTING" key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig.1 will be displayed.

### **SERVICE MENU**

### SERVICE MENU

1.IF 2.V/C 3.AUDIO 4.DEF 5.VSM PRESET 6.STATUS 7.PIP 8.—

9. SHIPPING (OFF) 0. BUS FREE

1-9: SELECT i: EXIT

Fig.1

### (2) Selection of SUB MENU SCREEN

Press one of keys 1~5 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF

2. V / C

3. AUDIO

4. DEF.

5. VSM PRESET

6. STATUS

7. PIP

8. --

9. SHIPPING (OFF)

0. BUS FREE

\* : Do not adjust

### NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	0
MUTING	×
MENU	$\otimes$
FUNCTION UP/DOWN	( <b>3</b> 5)
FUNCTION -/+	<b>()(</b> ()

Fig.2

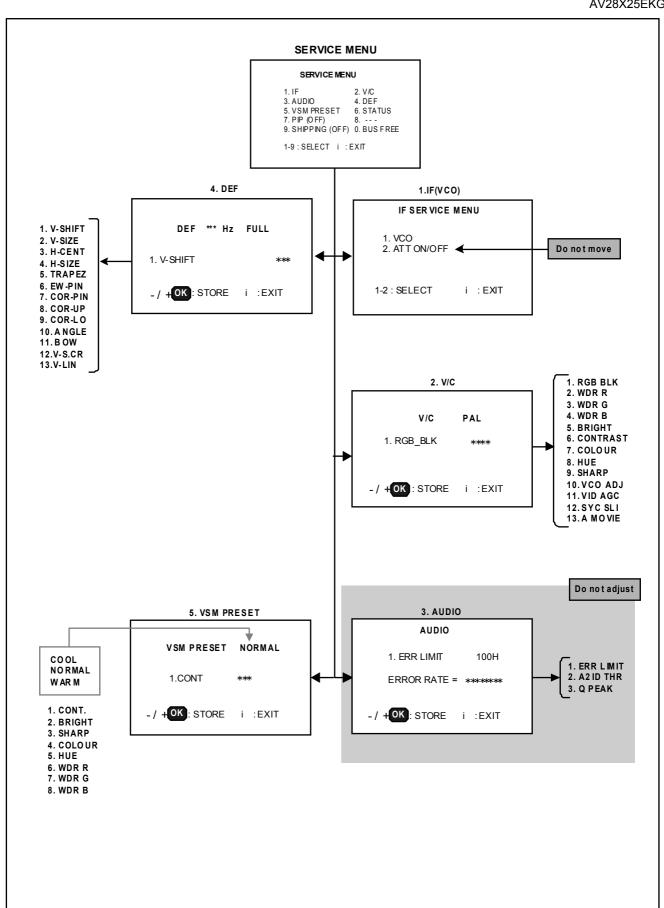


Fig.3 SUB MENU SCREEN

### (3) Method of Setting

1) Method of Setting 1.IF	
[VCO] · · · · · · · · · · · · · · · · · · ·	· It must not adjust without signal.
① 1 Key·····	· Select 1.IF.
② 1 Key·····	· Select 1.VCO(CW)
	Make sure that the arrow position between the ABOVE REF and BELOW REF.
③ INFORMATION Key · · · · · · · · · · · · · · · · · · ·	· Return to the SERVICE MENU screen.
2) Method of setting 2.V/C, 3.AUDIO, 4.DEF a	
① 2~5 Key·····	· Select one from 2.V/C, 3.AUDIO, 4.DEF and 5.VSM PRESET.
② FUNCTION UP / DOWN (▲/▼) Key ····	* Select setting items.
③ FUNCTION -/+ ( ◀/▶) Key · · · · · · · · · · · ·	Set (adjust) the setting values of the setting items.
4 MENU Key · · · · · · · · · · · · · · · · · · ·	· Memorize the setting value.
	(Before storing the setting values in memory, do not press the CH, TV, POWER ON /

OFF key - if you do, the values will not be stored in memory.)

3) Do not setting 6.STATUS, 7.PIP, 8.--, 9.SHIPPING(OFF) & 0.BUS FREE.

⑤ INFORMATION Key · · · · · Return to the **SERVICE MENU** screen.

### (4) Release of SERVICE MENU

1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

### **ADJUSTMENTS**

### CHECK ITEM

ltem	Measuring instrument	Test point	Ad justment part	Description
B1 Power Supply check	Signal generator  DC voltmeter  Remote control unit	TP-91(B1) TP-E(	1.RGB BLK	<ol> <li>Receive a any broadcast.</li> <li>Push the "ZOOM" key and select the FULL mode.</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select 1. RGB BLK with function UP / DOWN (▲/▼) key.</li> <li>Press the function + (►) key to find the cut off screen (Black screen).</li> <li>Connect a DC voltmeter to TP-91(B1) and TP-E(→).</li> <li>Make sure that the voltage is DC139.9 ±2.0V.</li> <li>Press the function - (◄) key to return to service menu</li> </ol>
High Voltage check	Signal generator DC volunteer Remote control unit	CRT anode Chassis GND	1.RGB BLK	<ol> <li>Receive a any broadcast.</li> <li>Push the "ZOOM" key and select the FULL mode.</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select 1. RGB BLK with function UP / DOWN (▲/▼) key.</li> <li>Press the function + (►) key to find the cut off screen (Black screen).</li> <li>Connect a DC voltmeter to CRT ANODE and chassis GND.         <ul> <li>+1kV</li> <li>Make sure that the voltage is DC 31.0kV -1.5kV .</li> </ul> </li> <li>Press the function - (◄) key to return to service menu.</li> </ol>
A! JU Bi	Remote control unit  IF SERVICEN  1.VCO  1.2: SELECT  VCO(CW)  MAIN  DO HIGH  BOVE REF  LIST REF  ELOW REF  DO LOW		(Do not move)	<ul> <li>Under nomal conditions, no adjustment is required.</li> <li>Confirmation adjustment.</li> <li>Select 1.IF from the SERVICE MENU.</li> <li>Then select 1.VCO from the IF SERVICE MENU.</li> <li>Receive any broadcast.</li> <li>Check the arrow (◄—) position between the ABOVE REF. and BELOW REF.</li> </ul>

### **FOCUS & SCREEN ADJUSTMENT**

Item	Measuring instrument	Test point	Ad justment part	Description
FOCUS adjustment [28" MODEL]	Signal generator	FOCU		<ol> <li>Receive a cross-hatch signal.</li> <li>Press the "ZOOM" key and select the FULL mode.</li> <li>While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible.</li> <li>Make sure that when the screen is darkened, the lines remain in good focus.</li> </ol>
FOCUS adjustment [32" MODEL]	Signal generator  FOCUS  HVT	FOCUS2(F2) FOCUS1(F1) SCREEN1(S:	FOCUS 1 FOCUS 2 [In HVT]	<ol> <li>Receive a cross-hatch signal.</li> <li>Push the "ZOOM" key and select the FULL mode.</li> <li>By turning the FOCUS2 VR, and adjust the picture so that the "O" part vertical line may become thinnest.</li> <li>By turning the FOCUS1 VR, and adjust the picture so that the 3rd horizontal line from the upper may become uniform at the line center and its periphery.</li> <li>Carry out adjustment by repeating the steps 3 and 4 above.</li> <li>Make sure that when the screen is darkened, the lines remain in good focus.</li> </ol>
SCREEN Ad justment			SCREENVR [In HVT]	<ol> <li>Press a whole black signal</li> <li>Press the "ZOOM" key and select the FULL mode.</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Turn the SCREEN VR clockwise from the full counter clockwise position and stop it at the point where "CLOW" status (marked in Fig.) changes from 1 to 0 to 1 (which is indicated at the 3rd column from the right.)</li> <li>Then turn the SCREEN VR counterclockwise, and stop where the "CLOW" status changes 1 to 0</li> <li>* "CLOW": control loopout of window.</li> </ol>

### VSM PRESET ADJUST SETTING

lte	Item Measuring Test point instrument		est point	Ad justment pa	art	Description					
SM PI	RESET	Remote control		2 3 4 5	1. CONT. 2. BRIGHT 3. SHARP 4. COLOUR 5. HUE 6. WDR R 7. WDR G 3. WDR B	2. Sele 3. Adju bring show 4. Pres 5. Res WAF 6. Pres	1. Select COOL with the MENU key of the remote cor 2. Select 5.VSM PRESET from the SERVICE MENU. 3. Adjust the FUNCTION UP/DOWN (▲/▼) and -/+ ( bring the set values of 1.CONT ~ 8. WDR B to shown in the table. 4. Press the MENU key and memorize the set value. 5. Respectively select the VSM PRESET mode for Now WARM, and make similar adjustment as in 3 above 6. Press the MENU key and memorize the set value.		NU. -/+ (◀/▶)key B to the value ue. or NORMAL ar nove. ue.		
			1.CONT.	2. BRIG HT	Γ 3.SHARP	4.COLOUR	5. HUE	6.WDR R	7.WDR G	8.WDR B	
_	COOL		1.CONT. +16	<b>2. BRIG HT</b>	7 3.SHARP	4.COLOUR +1	<b>5. HUE</b> 0	6.WDR R -27	7.WDR G -12	<b>8.WDR B</b>	
32"	COOL	AL									
32"			+16	0	-12	+1	0	-27	-12	0	
32"	NORMA		+16	0	-12	+1	0	-27 0	-12 0	0	
32"	NORMA WARM		+16 0 -13	0 0	-12 -12 -12	+1 0 -1	0 0 0	-27 0 +5	-12 0 0	0 0 0	

### **VIDEO / CHROMA CIRCUIT ADJUSTMENT**

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting item (Adjustment item)		Initial setting value	
2. V/C	PAL	SECAM	NT SC
1.RGB BLK			
2.WDR R	00 00	<b>←</b>	←
3.WDR G	00 00	<b>←</b>	←
4.WDR B (Do not adjust)	-012	<b>←</b>	<b></b>
5. BRIGHT	00 00	<b>←</b>	←
6.CONTRAST	00 60	<b>—</b>	←
7.COLOUR	00 00	<b>←</b>	←
8.HUE			00 20
9.SHARP (Do not adjust)	00 07	<b>←</b>	<b>+</b>
10.VCO ADJ. (Do not adjust)			
11.VID AGC (Do not adjust)	00 00	<b>←</b>	<b>←</b>
12.SYC SLI (Do not adjust)	00 07	<b>←</b>	<b>←</b>
13.A MOVIE (Do not adjust)	0001	<b>←</b>	←

\* : Do not adjust

ltem	Measuring instrument	Test point	Ad justment part	Description
WHITE BALANCE (High Light) adjustment	Signal generator Remote control unit		2. WDR R 3. WDR G 4. WDR B (Do not adjust)	<ul> <li>Set the PICTURE MODE to NORMAL.</li> <li>1. Receive a black and white signal (colour off).</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Modify 2. WDR R and 3.WDR G data to adjust the white balance ( high light ).</li> <li>4. Press the MENU key and memorize the set value.</li> <li>5. Change the contrast and brightness with the remote control up &amp; down from low-light to high-light and check that the tracking of the white balance is good.</li> </ul>
SUB BRIGHT adjustment	Remote control unit		5. BRIGHT	<ol> <li>Receive any broadcast.</li> <li>Select 2.V/C from the SERVICE MENU.</li> <li>Select 5.BRIGHT with the FUNCTION UP/DOWN (▲/▼) key.</li> <li>Set the initial setting value with the FUNCTION -/+ (◄/►) key.</li> <li>If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.</li> <li>Press the MENU key and memorize the set value.</li> </ol>
SUB CONT. Ad justment	Remote control unit		6.CONT.	<ol> <li>Receive any broadcast.</li> <li>Select 2.V/C from the SERVICE MENU.</li> <li>Select 6.CONT with the FUNCTION UP/DOWN (▲/▼) key.</li> <li>Set the initial setting value with the FUNCTION - / + (◄/►) key.</li> <li>If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast.</li> <li>Press the MENU key and memorize the set value.</li> </ol>

Item	Measuring instrument	Test point	Ad justment part	Description
SUB COLOUR I adjustment	Remote control unit		7.COLOUR (PAL~NT SC) PAL COLOUR	[Method of adjustment without measuring instrument]  (PAL COLOUR)  1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 7.COLOUR with the FUNCTION UP/DOWN (▲/▼) key. 4. Set the initial setting value for PAL COLOUR with the
	2 3   5 6	──CH. key		<ul> <li>FUNCTION - or + (◄/►) key.</li> <li>5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour.</li> <li>6. Press the MENU key and memorize the set value.</li> </ul>
(7)   (1)   (2)   (2)   (3)   (4)	8 9	_ MENU	SECAM COLOUR	(SECAM COLOUR)  1. Receive a SECAM broadcast.  2. Make fine adjustment of SECAM COLOUR in the same manner as for above.
		( OK ) key	NTSC COLOUR	(NTSC 3.58 COLOUR)  1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal.  2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
	ORMATION ) k			(NTSC 4.43COLOUR)  1. When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.

ltem	Measuring instrument	Test point	Ad justment part	Description
SUB COLOUR ∏ adjustment	Signal generator	TP-47B TP-E(++)	7.COLOUR (PAL~NTSC)	[Method of adjustment using measuring instrument]
	Os cill oscope  Remote control unit	SOCKET PWB]	PAL COLOUR	(PAL COLOUR)  1. Receive a PAL full field colour bar signal (75% white).  2. Select 2.V/C from the SERVICE MENU.  3. Select 7.COLOUR with the FUNCTION UP/DOWN (▲/▼) key.  4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + (◄/▶) key.  5. Connect the oscilloscope between TP-47B and TP-E(♣).  6. Adjust PAL COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)).  7. Press the MENU key and memorize the setting value.
			SECAM COLOUR  NTSC COLOUR	(SECAM COLOUR)  1. Receive a SECAM full field colour bar signal (75% white).  2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ (◄/►) key.  3. Adjust SECAM COLOUR and bring the value of (♠) in the illustration to the values as shown given billow (Voltag difference between white (W) and blue (B)).  4. Press the MENU key and memorize the setting value.  VOLTAGE (W-B) +4V  (NTSC 3.58 COLOUR)  1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.  2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ (◄/►) key.
				<ol> <li>Adjust NTSC 3.58 COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltag difference between white (W) and blue (B)).</li> <li>Press the MENU key and memorize the setting value.</li> </ol>
	Y G W Cy	R (A)	(-) 0 (+)	32" 28"  VOLTAGE (W-B) +5V +6V  (NTSC 4.43COLOUR)  1. When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR wi automatically set.

ltem	Measuring instrument	Test point	Ad justment part	Description
SUB HUE I	Remote control unit		8. HUE	[Method of adjustment without measuring instrument]
			NTSC 3.58 HUE	<ol> <li>[NTSC 3.58 HUE]</li> <li>Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>Select 2.V/C from the SERVICE MENU.</li> <li>Select 8. HUE with the FUNCTION UP/DOWN (▲/▼) key.</li> <li>Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ (◄/►) key.</li> <li>If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue.</li> <li>Press the MENU key and memorize the set value.</li> </ol>
			NTSC 4.43 HUE	(NTSC 4.43 HUE)  1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values
Ad justment	Signal generator	TP-47B TP-E(♣)	8. HUE	[Method of adjustment using measuring instrument]
SUB HUE II	Os cill oscope  Remote control unit	[CRT SOCKET PWB]	NTSC 3.58 HUE	<ul> <li>[NTSC 3.58 HUE]</li> <li>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Select 8. HUE with the FUNCTION UP/DOWN (▲/▼) key.</li> <li>4. Set the initial setting value of NTSC 3.58 HUE with the EUNCTION of the North Albabase.</li> </ul>
	YG	(B)	<del>()</del>	FUNCTION - or + (◀/▶) key.  5. Connect the oscilloscope between TP-47B and TP-E(⅓)  6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to the values as shown given billow (voltage difference between white (W) and magenta (Mg)).  7. Press the MENU key and memorize the setting value
	W Cy M	Mg B	(+)	32" 28"  VOLTAGE (W-Mg) -8V -3V
		NTSC 4.43 HUE		(NTSC 4.43 HUE)  1. When NTSC 3.58 COLOURset, NTSC 4.43 COLOUR will automatically set.

\* : Fixed value

### **DEFLECTION CIRCUIT ADJUSTMENT**

There are 4 aspect modes ( ①FULL, ②PANORAMIC, ③SUBTITLE, ④COMPRES) of the adjustment (1) 100Hz i mode, (2) 120Hz i mode ······ depending upon the kind of signals (vertical frequency 100Hzi / 120Hzi).

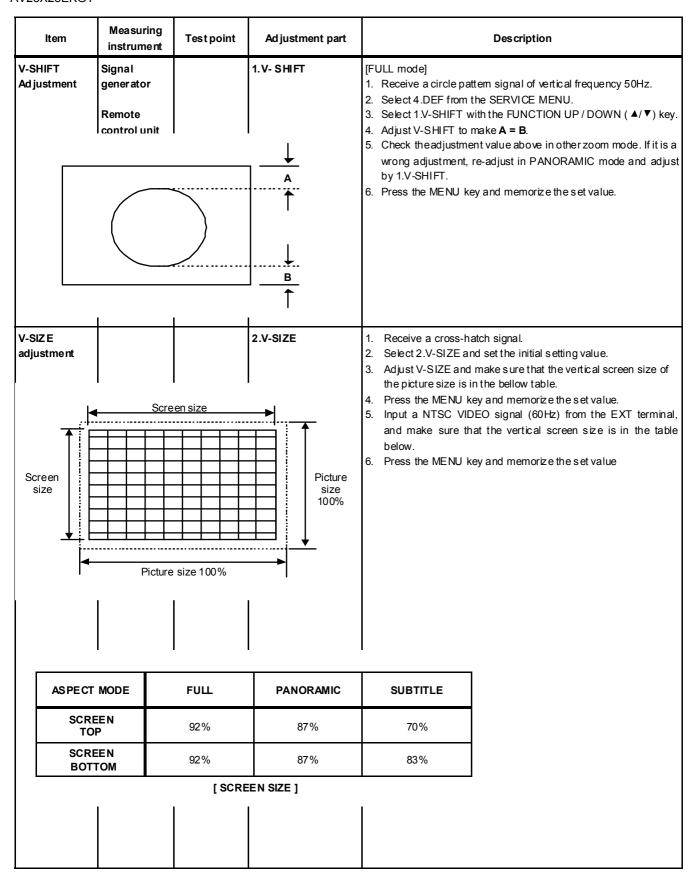
- When the 100Hz FULL mode has been established, the setting of other modes will be done automatically. Ho wever, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

### Initial setting value (32")

				Initial setting value								
Setting item	Ad justment name	FU	FULL		PANORAMIC		TITLE	COMPRESS				
		100Hzi	120Hzi	100Hzi	120Hzi	100Hzi	120Hzi	100Hzi	60 P			
1. V-SHIFT	Vertical center	-002	+008	0000	0000	+006	0000	0000	0000			
2. V-SIZE	Vertical height	0000	+002	0000	0000	+001	00 00	-014	0000			
3. H-CENT	Horizontal center	-012	+004	-002	0000	0000	00 00	0000	0000			
4. H-SIZE	Horizontal width	-028	-004	-002	0000	00 00	00 00	-003	0000			
5. TRAPEZ	Trapezoidal distortion correction	-012	+007	-003	-002	-002	00 00	+002	0000			
6. EW-PIN	Side pin correction	-041	+001	0000	-001	00 00	-002	0000	0000			
7. COR-PIN	CornerPin	0000	+006	0000	0000	0000	+002	0000	0000			
8. COR-UP	Corner Pin correction Up side	0000	+003	0000	0000	00 00	00 00	0000	0000			
9. COR-LO	Corner Pin correction Low side	-005	-013	-004	+002	-005	+003	0000	0000			
10.ANGLE	Angle correction	+002	00 00	+001	0000	+002	00 00	0000	0000			
11.BOW	Bow-shaped distortion correction	0000	0000	+001	0000	+001	0000	0000	0000			
12.V-S.CR (Do not adjust)	Vertical height correction	00 00	-008	00 00	00 00	+007	0000	0000	0000			
13.V-LIN (Do not adjust)	Vertical Linearity	-007	+004	00 00	00 00	-015	0000	0000	0000			

### Initial setting value (28")

		Initial setting value								
Setting item	Ad justment name	FULL		PANORAMIC		SUBTITLE		COMPRESS		
		100Hzi	120Hzi	100Hzi	120Hzi	100Hzi	120Hzi	100Hzi	60 P	
1. V-SHIFT	Vertical center	-004	+009	0000	0000	+005	+001	0000	0000	
2. V-SIZE	Vertical height	+005	00 00	0000	0000	+001	0000	-015	0000	
3. H-CENT	Horizontal center	-007	+004	-003	0000	0000	0000	0000	0000	
4. H-SIZE	Horizontal width	-015	-004	-002	0000	00 00	00 00	0000	0000	
5. TRAPEZ	Trapezoidal distortion correction	-022	+009	-004	0000	0000	+006	0000	0000	
6. EW-PIN	Side pin correction	-042	00 00	0000	0000	0000	0000	0000	0000	
7. COR-PIN	Corner Pin	0000	+010	0000	0000	0000	0000	0000	0000	
8. COR-UP	Corner Pin correction Up side	0000	+001	0000	-002	0000	-008	0000	0000	
9. COR-LO	Corner Pin correction Low side	-005	-007	0000	0000	00 00	00 00	0000	0000	
10.ANGLE	Angle correction	0000	00 00	0000	0000	00 00	0000	0000	0000	
11.BOW	Bow-shaped distortion correction	0000	00 00	0000	0000	00 00	00 00	0000	0000	
12.V-S.CR (Do not adjust)	Vertical height correction	+002	00 00	00 00	00 00	+010	00 00	0000	0000	
13.V-LIN (Do not adjust)	Vertical Linearity	-005	00 00	00 00	00 00	-015	00 00	0000	0000	



Item	Measuring instrument	Test point	Ad justment part	Description
H. CENTER adjustment	C 0%		3.H-CENT.	1. Receive a circle pattern signal. 2. Select 3.H-CENT and set the initial setting value. 3. Adjust H-CENT to make C=D. 4. Press the MENU key and memorize the set value.
H.SIZ E adjustment			4. H-SIZ E	<ol> <li>Receive a circle pattern signal.</li> <li>Select 4.H-SIZE and set the initial setting value.</li> <li>Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the bellow table.</li> <li>Press the MENU key and memorize the set value.</li> <li>Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size of the each ASPECT mode is in the below table.</li> <li>Press the MENU key and memorize the set value.</li> </ol>
AS PE C MODE		FULL	PANORAMIC	SUBTITLE
H SIZE	i.	92%	95%	92%
	Ī	[ SCREE!	N SIZE]	1
EW-PIN adjustment	· · · · · · · · · · · · · · · · · · ·	Straight —	6.EW-PIN	<ol> <li>Select 6.EW-PIN and set the initial setting value</li> <li>Adjust EW-PIN and make the 2nd.vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight.</li> <li>Press the MENU key and memorize the set value.</li> </ol>

ltem	Measuring instrument	Test point	Ad justment part	Description		
TRAPEZIUM Signal generator Remote control unit		5.TRAPEZ		<ol> <li>Receive a cross-hatch signal.</li> <li>Select 5.TRAPEZ with the FUNCTION UP/DOWN (▲/▼) ke</li> <li>Set the initial setting value of TRAPEZ with the FUNCTION         - or + (◄/►) key.</li> <li>Adjust TRAPEZ and bring the VERTICAL lines at the right at left edges of the screen parallel.</li> <li>Press the MENU key and memorize the set value.</li> </ol>		
COR. UP/LO adjustment  Straigh	Signal generator Remote control unit	Straig	7.COR-PIN 8.COR-UP 9.COR-LO	<ol> <li>Select 8.COR-UP with the FUNCTION UP / DOWN (▲/▼) key.</li> <li>Set the initial setting value of CORUP with the FUNCTION - or + (◄/►) key.</li> <li>Adjust COR-UP, and bring the straight line at the upper corner.</li> <li>Select 9.COR-LO with the FUNCTION UP / DOWN (▲/▼) key.</li> <li>Set the initial setting value of COR-LO with the FUNCTION - or + (◄/►) key.</li> <li>Adjust COR-LO, and bring the straight line at the low comer.</li> <li>Press the MENU key and memorize the set value.</li> <li>If the extreame upper &amp; lower corners are a little pin or barrel chose 7.COR-PIN and adjust.</li> <li>Press the MENU key and memorize the set value</li> </ol>		
ANGL E adjustment	F	ig. A	10. ANGLE	<ul> <li>In case where there is a parallelogrammical distortion of images on the screen. (Fig.A)</li> <li>Select 10.ANGLE with the FUNCTION UP / DOWN (▲/▼) key.</li> <li>Adjust ANGEL, and bring the VERTICAL lines straight.</li> <li>Press the MENU key and memorize the set value.</li> </ul>		

Item	Measuring instrument	Test point	Ad justment part	Description
BOW adjustment		Fig. B	11.BOW	<ul> <li>In case where there is a bow-shaped distortion of images on the screen. (Fig.B)</li> <li>Select 11.BOWwith the FUNCTION UP/DOWN (▲/▼) key.</li> <li>Adjust BOW, and bring the VERTICAL lines straight.</li> <li>Press the MENU key and memorize the set value.</li> </ul>
V-S.CR & V.LINE ARITY adjustment			12.V-S.CR 13.V-LIN  TOP  CENTER  BOTTOM	<ul> <li>When the vertical linearity has been deteriorated remarkably, perform the following steps.</li> <li>Receive a cross-hatch signal.</li> <li>Select 13.V-LIN with the FUNCTION UP/DOWN (▲/▼)key.</li> <li>Set the initial setting value of 13.V-LIN with the FUNCTION -/+ (◄/►) key.</li> <li>Select 12.V-S.COR with the FUNCTION UP / DOWN (▲/▼) key.</li> <li>Set the initial setting value of 12.V-S.COR with the FUNCTION -/+ (◄/►) key.</li> <li>Adjust 13.V-LIN and 12.V-S.COR so that the spaces of each line on TOP, CENTER and BOTTOM become uniform.</li> </ul> NOTE: Do not adjust PANORAMIC & SUBTITLE mode.
				At first the adjustment in 100Hz FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 120Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 120Hz is corrected in the respective value. Only the data for the other aspect mode in 120Hz is corrected for its elf.

### **AUDIO CIRCUIT ADJUSTMENT**

• Do not touch **3. AUDIO** adjustment of the SERVICE MENU as it requires no adjustment. If values had changed for the some reason, set the initial values in the following table.

### 3. AUDIO (Do not adjust)

Setting item	Variable range	fixed value
1. ERR LIMIT	000H∼FF0H	100H
2. A2 ID THR	00H∼FFH	19H
3. Q-PEAK	0000H∼7FFFH	

# **PARTS LIST**

### **CAUTION**

- The parts identified by the △ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS		
CR	Carbon Resistor	C CAP.	Ceramic Capacitor	
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor	
PR	Plate Resistor	M CAP.	Mylar Capacitor	
VR	Variable Resistor	HV CAP.	High Voltage Capacitor	
HVR	High Voltage Resistor	MF CAP.	Metalized Film Capacitor	
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor	
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor	
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor	
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor	
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor	
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor	
CHVR	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor	
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor	
COMP.R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor	
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor	
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor	
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor	
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor	

	TOLERANCES								
F	G	J	К	М	N	R	Н	Z	Р
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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■ PACKING

### **USING PW BOARD & REMOTE CONTROL UNIT**

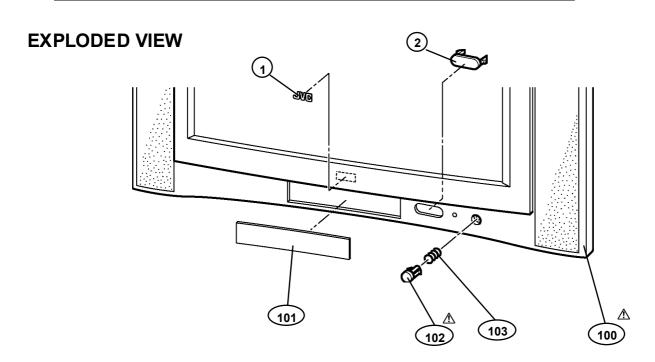
Model PWB ASS'Y	AV32X25EUS	AV32X250EUS	AV32X25EIGY	AV32X25EKGY
MAIN PWB	SMF-1404A-U2	<b>←</b>	<del>&lt;</del>	SMF-1944A-U2
POWER & DEF. PWB	SMF-2404A-U2	<del></del>	<b>←</b>	<b>←</b>
CRT SOCKET PWB	SMF-3404A-U2	<b>←</b>	<b>←</b>	<b>←</b>
FRONT CONTROL PWB	SMF-8404A-U2	<b>←</b>	<b>←</b>	<b>←</b>
SIDE CONTROL PWB	SMF-8104A-U2	<del></del>	<b>←</b>	<b>←</b>
MICOM PWB	SMF0M401A-U2	<del></del>	<b>←</b>	<b>←</b>
AV SW PWB	SMF0S402A-U2	<del></del>	<b>←</b>	<b>←</b>
<b>100Hz PWB</b> SMF0Z404A-U2		<del>-</del>	<del>-</del>	<b>←</b>
REMOTE CONTROL UNIT RM-C54H-1C		<del></del>	RM-C55H-1C	<b>—</b>

Model	AV28X25EUS	AV28X25EIGY	AV28X25EKGY
PWB ASS'Y			
MAIN PWB	SMF-1403A-U2	<del></del>	SMF-1943A-U2
POWER & DEF. PWB	SMF-2403A-U2	<b>↓</b>	<del></del>
CRT SOCKET PWB	SMF-3403A-U2	<del>-</del>	<b>←</b>
FRONT CONTROL PWB	SMF-8403A-U2	<b>←</b>	<b>←</b>
SIDE CONTROL PWB	SMF-8103A-U2	<del>-</del>	<del>-</del>
MICOM PWB	SMF0M401 A-U2	<del>-</del>	<b>←</b>
AV SW PWB	SMF0S402A-U2	<del>-</del>	<del></del>
100Hz PWB	SMF0Z404A-U2	<del>-</del>	<del>-</del>
REMOTE CONTROL UNIT	RM-C54H-1C	RM-C55H-1C	<del></del>

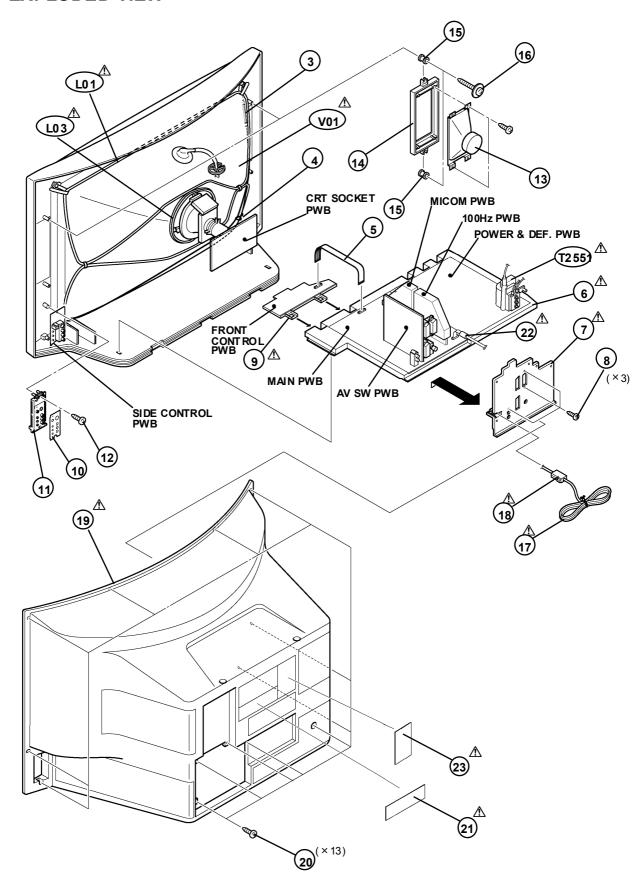
### **EXPLODED VIEW PARTS LIST**

### AV32X25EUS / AV32X250EUS / AV32X25EIGY / AV32X25EKGY

⚠ Ref.No.	Part No.	Part Name	Description
1 1 2 100 100 101	LC41250-002C-C LC41250-001C-C LC31851-001B-C LC11360-004A-U LC11360-003A-U LC21065-001A-U	JVC MARK JVC MARK WINDOW F. CABINET ASSY F. CABINET ASSY CENTER PANEL	[AV32 X25 EUS] [AV 32X 250 EUS] [AV32 X25 E I GY] [AV32 X25 EKGY]  Inc. No. 101 ~ 103 [AV32 X25 EUS] [AV 32X 250 EUS] Inc. No. 101 ~ 103 [AV32 X25 E I GY] [AV32 X25 EKGY]
<b>△</b> 102 103	LC31201-004A-U AEM3149-001-E	POWER KNOB SPRING	(SERVICE)
↑ V01 ↑ L01 ↑ L03 ↑ T2551 3 4	W7 6ER F04 2X04 4 QQ W00 66-001 QQ W01 30-001 QQ H01 27-001 WJ Y00 01-010A WJ Y00 13-002A	ITC TUBE (C) DE GAUSSING COIL ROT-COIL H. V. TRANSF. BRAIDED ASSY BRAIDED SUB ASSY	Inc. DY, PC MAGNET, WEDGE
5 <b>▲</b> 6	CH FD1 25-18BD LC 107 16-002F-U	FFC WIRE CHASSIS BASE	CN -1
↑ 7 8 ↑ 9 10 11 12	LC 11010-004A-U QYSBS B3012M LC 11311-002A-U LC 31205-002A-U LC 10856-001C-U QYSBS AG4016N	TERMINAL BOARD TAPPING SCREW CONTROL BASE CONTROL SHEET SIDE CONTROL BASE TAPPING SCREW	(x 3)
13 14	QA S01 09-001 LC 113 10-0 01A-U	SPEAKER SPEAKER ADAPTER	SP 01-02 (x 2) (x 2)
15 16 <b>17</b> <b>17</b> <b>18</b> <b>1</b> 18	LC 402 26-003A-H LC 405 06-001A QMPK1 60-185-JC QMPN1 30-185-JC CM 466 18-A01-E LC 113 16-001A-U	SPACER TAPPING SCREW POWER CORD POWER CORD POWER CORD CLAMP REAR COVER	(x 4) (x 4) CN-PW[A V32 X25 EUS] [AV 32X 250 EUS] CN-PW[A V32 X25 E I GY] [A V32 X25 EKGY]
20 <b>▲ 21</b>	QY SBS AG4 016N <b>LC 114 14-003A-U</b>	TAPPING SCREW Rating Label	(x 13) [AV32 X25 EUS]
<b>⚠</b> 21 <b>⚠</b> 21 <b>⚠</b> 21 <b>⚠</b> 22	LC11372-004A-U LC11364-008A-U LC11364-007A-U QQR0491-001	RATING LABEL RATING LABEL RATING LABEL FILTER	[A V32 X25 0EUS ] [A V32 X25 E I GY ] [A V32 X25 EKGY ]
∆ 22 <b>∆</b> 23	LC 307 89-002B-U	WARNING LABEL	[A V32 X25 EUS]



# **EXPLODED VIEW**



# AV32X25EUS / AV32X250EUS / AV32X25EIGY

# PRINTED WIRING BOARD PARTS LIST

Δ	IMAIN Symbol No.	P.W. BOARD Part No.	ASS'Y Part Name	(SM F-1404A-U2) Description
_	RES	ISTOR		
	R1004-06 R1008-09 R1102 R1103 R1104 R1105 R1106 R1108	NRSA63J-101X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-222X NRSA63J-102X NRSA63J-561X NRSA63J-331X NRSA63J-102X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{c} 100\Omega \ 1/16W \ J \\ 0.0\Omega \ 1/16W \ J \\ 0.0\Omega \ 1/16W \ J \\ 2.2 k\Omega \ 1/16W \ J \\ 1k\Omega \ 1/16W \ J \\ 560\Omega \ 1/16W \ J \\ 330\Omega \ 1/16W \ J \\ 1k\Omega \ 1/16W \ J \\ \end{array}$
	R1109-11 R1151 R1153 R1156 R1158-59 R1161 R1301-02 R1303	NRS/63J-101X NRS/63J-101X NRS/63J-101X NRS/63J-0ROX NRS/63J-0ROX NRS/63J-0ROX NRS/63J-071X NRS/63J-273X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 100\Omega & 1/16W & J \\ 100\Omega & 1/16W & J \\ 100\Omega & 1/16W & J \\ 0.0\Omega & 1/16W & J \\ 100\Omega & 1/16W & J \\ 27k\Omega & 1/16W & J \\ \end{array}$
	R1304 R1311 R1312 R1313 R1314 R1315-17 R1318 R1319	NRS/63J-102X NRS/63J-331X NRS/63J-273X NRS/63J-213X NRS/63J-221X NRS/63J-101X NRS/63J-562X NRS/63J-183X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 1 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 330\Omega & 1/16 \text{W} & \text{J} \\ 27 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 18 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 22 0_{\Omega} & 1/16 \text{W} & \text{J} \\ 100_{\Omega} & 1/16 \text{W} & \text{J} \\ 5.6 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 18 k_{\Omega} & 1/16 \text{W} & \text{J} \end{array}$
	R1321-22 R1325 R1326 R1401-02 R1403-04 R1405-06 R1451 R1454	NRS/63J-0ROX NRS/63J-101X NRS/63J-682X NRS/63J-102X NRS/63J-331X NRS/63J-102X NRS/63J-821X NRS/63J-472X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 0.0\Omega & 1/16W & J \\ 100\Omega & 1/16W & J \\ 6.8k\Omega & 1/16W & J \\ 1k\Omega & 1/16W & J \\ 330\Omega & 1/16W & J \\ 1k\Omega & 1/16W & J \\ 820\Omega & 1/16W & J \\ 4.7k\Omega & 1/16W & J \\ \end{array}$
	R1455-56 R1457 R1458 R1459 R1461 R1462 R1463 R1464	NRS/63J-123X NRS/63J-392X NRS/63J-123X NRS/63J-472X NRS/63J-123X NRS/63J-153X NRS/63J-124X NRS/63J-563X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 12 k\Omega & 1/16 W & J \\ 3.9 k\Omega & 1/16 W & J \\ 12 k\Omega & 1/16 W & J \\ 4.7 k\Omega & 1/16 W & J \\ 12 k\Omega & 1/16 W & J \\ 15 k\Omega & 1/16 W & J \\ 120 k\Omega & 1/16 W & J \\ 56 k\Omega & 1/16 W & J \\ \end{array}$
	R1465-66 R1467 R1468 R1469 R1470 R1471 R1472 R1473	NRS/63J-224X NRS/63J-563X NRS/63J-263X NRS/63J-683X NRS/63J-223X NRS/63J-273X NRS/63J-273X NRS/63J-123X	MG R MG R MG R MG R MG R MG R MG R	220kΩ 1/16W J 56kΩ 1/16W J 220kΩ 1/16W J 68kΩ 1/16W J 22kΩ 1/16W J 22kΩ 1/16W J 27kΩ 1/16W J 6.8kΩ 1/16W J 12kΩ 1/16W J
	R1474 R1475 R1476-78 R1479 R1480 R1481 R1482 R1483	NRSÆ3J-563X NRSÆ3J-153X NRSÆ3J-123X NRSÆ3J-154X NRSÆ3J-823X NRSÆ3J-472X NRSÆ3J-272X NRSÆ3J-472X	MG R	56kΩ 1/16W J 15kΩ 1/16W J 12kΩ 1/16W J 12kΩ 1/16W J 150kΩ 1/16W J 82kΩ 1/16W J 4.7kΩ 1/16W J 2.7kΩ 1/16W J 4.7kΩ 1/16W J
	R1484 R1485 R1486 R1487 R1489 R1491 R1492 R1493	NRSA63J-473X NRSA63J-123X NRSA63J-472X NRSA63J-333X NRSA63J-333X NRSA63J-472X NRSA63J-562X NRSA63J-183X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 47 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 12 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 4.7 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 33 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 33 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 4.7 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 5.6 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 18 k_{\Omega} & 1/16 \text{W} & \text{J} \end{array}$

Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R1501 R1504 R1511 R1512 R1521 R1522 R1551 R1552	NRSA63J-0R0X NRSA63J-102X NRSA63J-152X NRSA63J-332X NRSA63J-223X NRSA63J-562X NRSA63J-100X NRSA63J-124X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/16W & J \\ 1k\Omega & 1/16W & J \\ 1.5k\Omega & 1/16W & J \\ 3.3k\Omega & 1/16W & J \\ 22k\Omega & 1/16W & J \\ 5.6k\Omega & 1/16W & J \\ 10\Omega & 1/16W & J \\ 120k\Omega & 1/16W & J \\ \end{array}$
	R1553 R1554 R1555 R1556 R1557 R1558 R1559 R1560	NRSA63J-683X NRSA63J-562X NRSA63J-333X NRSA63J-472X NRSA63J-562X NRSA63J-104X NRSA63J-154X NRSA63J-100X	MG R	68κΩ 1/16W J 5.6κΩ 1/16W J 33κΩ 1/16W J 4.7κΩ 1/16W J 5.6κΩ 1/16W J 100κΩ 1/16W J 150κΩ 1/16W J 10Ω 1/16W J
	R1561 R1562 R1563 R1564 R1565 R1591 R1592 R1595	QRN143J-OROX NRSA63J-683X NRSA63J-103X NRSA63J-223X NRSA63J-561X NRSA63J-561X NRSA63J-332X NRSA63J-222X	C R MG R MG R MG R MG R MG R MG R	0.Ω 1/4W J 68kΩ 1/16W J 10kΩ 1/16W J 22kΩ 1/16W J 5.6kΩ 1/16W J 56ΩΩ 1/16W J 3.3kΩ 1/16W J 2.2kΩ 1/16W J
	R1596 R1601 R1602 R1603 R1604 R1605 R1606 R1609	NRS.463 J - 104X NRS.463 J - 273 X NRS.463 J - 103 X NRS.463 J - 273 X NRS.463 J - 103 X NRS.463 J - 473 X NRS.463 J - 273 X NRS.463 J - 104 X	MG R MG R MG R MG R MG R MG R MG R	100kΩ 1/16W J 27kΩ 1/16W J 10kΩ 1/16W J 27kΩ 1/16W J 10kΩ 1/16W J 47kΩ 1/16W J 27kΩ 1/16W J 27kΩ 1/16W J 100kΩ 1/16W J
	R1610 R1618 R1619 R1620 R1637 R1639 R1642-43 R1644	NRS.463J - 682X NRS.463J - 333X NRS.463J - 104X NRS.463J - 562X QRK.126J - 2R2X NRS.463J - 561X NRS.463J - 681X NRS.463J - 104X	MG R MG R MG R C R MG R MG R MG R	6.8κΩ 1/16W J 33kΩ 1/16W J 100kΩ 1/16W J 5.6κΩ 1/16W J 2.χΩ 1/2W J 56κΩ 1/16W J 68κΩ 1/16W J 100kΩ 1/16W J
	R1645-46 R1649 R1650-51 R1654-55 R1664-65 R1666 R1667 R1668	NRS.463J-0R0X QRK126J-2R2X NRS.463J-103X NRS.463J-0R0X NRS.463J-103X NRS.463J-473X NRS.463J-183X NRS.463J-473X	MG R C R MG R MG R MG R MG R MG R	0. Ω 1/16W J 2. Ω 1/2W J 10ΚΩ 1/16W J 0. Ω 1/16W J 10ΚΩ 1/16W J 47ΚΩ 1/16W J 18ΚΩ 1/16W J 47ΚΩ 1/16W J
	R1669 R1670-71 R1672 R1673 R1675 R1677-78 R1679 R1680	NRSA63J-183X NRSA63J-104X NRSA63J-223X NRSA63J-273X NRSA63J-103X NRSA63J-103X NRSA63J-223X NRSA63J-223X	MG R	18κΩ 1/16W J 100κΩ 1/16W J 22κΩ 1/16W J 27κΩ 1/16W J 10κΩ 1/16W J 10κΩ 1/16W J 22κΩ 1/16W J 27κΩ 1/16W J
	R1684 R1687 R1701-02 R1703-04 R1705-08 R1711-12 R1714-15 R1720-22	NRSA63J-OROX NRSA63J-103X NRSA63J-103X NRSA63J-102X NRSA63J-103X NRSA63J-101X NRSA63J-102X NRSA63J-102X	MG R MG R MG R MG R MG R MG R MG R	0.Ω 1/16W J 0.Ω 1/16W J 10kΩ 1/16W J 1kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J

∆ Symbol No.	Part No.	Part Name	Description
RES	ISTOR		_
R1772-76	NRSA63J-221X	MG R	220Ω 1/16W J
R1951	QRK126J-220X	C R	22Ω 1/2W J
CAP	ACITOR		
C1001	NCB31HK-222X	C CAP. E CAP. C CAP. E CAP. C CAP. C CAP. E CAP. E CAP. E CAP.	2200pF 50V K
C1002	QETN1HM-106Z		10µF 50V M
C1004	NCB31CK-104X		0.1µF 16V K
C1005	QETN1CM-108Z		1000µF 16V M
C1006	NCB31HK-103X		0.01µF 50V K
C1007	QETN1HM-106Z		10µF 50V M
C1009	NCB31CK-104X		0.1µF 16V K
C1010	QETN1HM-106Z		10µF 50V M
C1101 C1102 C1103 C1104 C1105 C1106-07 C1108 C1111	NCB31CK-104X QETM1HM-106Z NCB31CK-104X QETM1CM-107Z QETM1HM-106Z NCB31CK-104X NDC31HJ-680X NCB31HK-103X	C CAP. E CAP. C CAP. E CAP. C CAP. C CAP. C CAP.	0.1µF 16V K 10µF 50V M 0.1µF 16V K 100µF 16V M 10µF 50V M 0.1µF 16V K 68pF 50V J 0.01µF 50V K
C1116 C1117-18 C1119-20 C1121 C1122-23 C1124-25 C1126 C1127	NCB31HK-472X NCB31HK-103X NDC31HJ-2R0X NCB31HK-103X NDC31HJ-102X QETM1HM-106Z NCB31CK-104X QETM1HM-106Z	C CAP. C CAP. C CAP. C CAP. C CAP. E CAP. C CAP. E CAP. E CAP.	4700pF 50V K 0.01µF 50V K 2.00F 50V J 0.01µF 50V K 1000pF 50V J 10µF 50V M 0.1µF 16V K 100µF 50V M
C1128	NCB31CK-104X	C CAP. C CAP. E CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 16V K
C1129	NCF31AZ-105X		1µF 10V Z
C1130	QETNLHM-106Z		10µF 50V M
C1151-54	NCF31AZ-105X		1µF 10V Z
C1155-56	NDC31HJ-102X		1000F 50V J
C1301	QETNLCM-107Z		100µF 16V M
C1302-03	NCB31CK-104X		0.1µF 16V K
C1305-09	NCB31CK-104X		0.1µF 16V K
C1310	QETMLAM-228Z	E CAP. CHIP CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	2200µF 10V M
C1311	NCB31CK-683X		0.068µF 16V K
C1312	NDC31HJ-221X		220pF 50V J
C1313-15	NCB31HK-223X		0.02µF 50V K
C1316-18	NCB31HK-103X		0.01µF 50V K
C1320	QETMOJM-228Z		2200µF 6.3V M
C1321-23	NCB31HK-223X		0.022µF 50V K
C1324	NDC31HJ-820X		82pF 50V J
C1351	QENCIEM-106Z	BP E CAP.	10uF 25V M 0.1µF 16V K 100µF 16V M 0.1µF 16V K 0.01µF 50V K 0.031µF 25V K 0.1µF 16V K 0.033 µF 25V K
C1401	NCB31CK-104X	C CAP.	
C1402	QETNLCM-107Z	E CAP.	
C1402 - 04	NCB31CK-104X	C CAP.	
C1453	NCB31LK-103X	C CAP.	
C1454	NCB31EK-333X	C CAP.	
C1455 - 56	NCB31CK-104X	C CAP.	
C1457	NCB31EK-333X	C CAP.	
C1458	NCB31CK-104X	C CAP.	0.1 µF 16V K
C1471	NCB31CK-104X		0.1 µF 16V K
C1472	NCB31HK-103X		0.01 µF 50V K
C1473	NCB31CK-104X		0.1 µF 16V K
C1474	NCB31CK-333X		0.033 µF 25V K
C1475	NCB31CK-104X		0.1 µF 16V K
C1491	NCB31CK-473X		0.047 µF 25V K
C1501-02	NDC31HJ-150X		15 pF 50V J
C1551-52	NCF31CZ-224X	C CAP. E CAP. E CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.22µF 16V Z
C1553	QETMLEM-476Z		47µF 25V M
C1554-55	NCF31CZ-224X		0.22µF 16V Z
C1560	QETMLCM-107Z		100µF 16V M
C1561	NDC31HJ-561X		560µF 50V J
C1562	QETMLHM-105Z		1µF 50V M
C1564	NCB31CK-104X		0.1µF 16V K
C1591	NDC31HJ-471X		470µF 50V J
C1596	NCB31CK-104X	C CAP.	0.1μF 16V K
C1600	QETN1HM-226Z	E CAP.	22μF 50V M

∆ Symbol No.	Part No.	Part Name	Description
CAPA	ACITOR		
C1606-07 C1616 C1618 C1628 C1629 C1630 C1632 C1634	QETNL CM-2277 QETNLHM-1057 QETNLHM-1057 QETNLHM-1077 QETNLHM-1067 NCF21H7-224X NCF21H7-224X QETMLHM-228	E CAP. E CAP. E CAP. E CAP. E CAP. C CAP. C CAP. C CAP.	220µF 16V M 1µF 50V M 1µF 50V M 100µF 50V M 10µF 50V M 0.22µF 50V Z 0.22µF 50V Z 2200µF 50V M
C1641-42 C1646-47 C1648-49 C1673-74 C1675 C1676-77 C1678-79 C1680	NCF21HZ-224X NCB31HK-103X QETM1VM-108 NCF31AZ-105X QETM1EM-476Z NDC31HJ-151X NDC31HJ-150X NCF31AZ-105X	C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.22µF 50V Z 0.01µF 50V K 1000 µF 35V M 1µF 10V Z 47µF 25V M 150µF 50V J 15pF 50V J 1µF 10V Z
C1681 C1682 C1683 C1684 C1685 C1686 C1687 C1688	NCB31HK-332X NCB31EK-333X QETNLEM-476Z NCB31HK-332X NCB31EK-333X NCF31AZ-105X QETNLHM-106Z QETNLEM-476Z	C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. E CAP. E CAP.	330QpF 50V K 0.033 µF 25V K 47µF 25V M 330QpF 50V K 0.033 µF 25V K 1µF 10V Z 10µF 50V M 47µF 25V M
C1689 C1695 C1698 C1699 C1701 C1702 C1951 C1952-53	NCB31CK-104X NRSA63J-OROX NRSA63J-OROX NCB31HK-103X QETN1HM-106Z NCB31CK-563X QETN1CM-477Z NCB31CK-104X	C CAP. MG R MG R C CAP. CHIP CAP. E CAP. C CAP. C CAP. C CAP.	$\begin{array}{ccccc} 0.1 \mu F & 16 V & K \\ 0.0 \Omega & 1/16 W & J \\ 0.0 \Omega & 1/16 W & J \\ 0.01 \mu F & 50 V & K \\ 10 \mu F & 50 V & M \\ 0.056 & \mu F & 16 V & K \\ 470 \mu F & 16 V & K \\ 0.1 \mu F & 16 V & K \\ \end{array}$
C1954 C1955 C1956	QETNI.AM-477Z QETNI.AM-227Z QETNI.AM-107Z	E CAP. E CAP. E CAP.	$\begin{array}{cccc} 470\mu F & 10V & M \\ 220\mu F & 10V & M \\ 100\mu F & 10V & M \end{array}$
COIL	_		
L1001 L1002-03 L1101 L1102 L1301-02 L1951	OOL244K-270Z QQL244K-100Z QRN143J-0R0X QQL244K-4R7Z NQL092K-1R5X QQL26AM-5R6Z	PEAKING COIL COIL C R COIL INDUCTOR CHOKE COIL	10 <sub>μ</sub> H K 0.0Ω 1/4W J 4.7μH K
DIO	DE		
D1317-18 D1319 D1320-21 D1471-74 D1475 D1521 D1591 D1592	MA111-X MA3036-X MA3056/M/-X MA111-X MA3240/M/-X MA111-X MA111-X MA3051/M/-X	SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE GHIP ZENER DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE	
D1593 D1602 D1610-11 D1614-15 D1617 D1619-20 D1771-74 D1951	MA111-X MA111-X MA111-X MA111-X MA111-X MA3300/L/-X MA3066/M/-X 15R35-400A-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE	
D1981-82	MA111-X	SI.DIODE	
TRAN	NS I STO	₹	
Q1101-02 Q1301 Q1471-72 Q1561 Q1562 Q1591 Q1592 Q1601-02	25C2412K/QR/-X 25A1037AK/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X 25A1037AK/QR/-X 25A1037AK/QR/-X 25C2412K/QR/-X 25A1037AK/QR/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	

<u></u>	/mbol No.	Part No.	Part Name	Desc	ripti	on
٦	ΓRAN	SISTOR	2			
Ò1 Q1 Q1	1604-05 1606 1607 1615 1616-17	DTC124EKA-X 2SC2412K/QR/-X DTA124EKA-X 2SA1037AK/QR/-X DTC323TK-X	DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR			
]	ГC					
I C I C I C I C I C	1101 11301 11402 11471 11551 11601 11662 11663	MSP3415DQGB3GHX SDA9880 BA10824AF-XE BA10858F-XE LA6515 TA8246AH BA4558F-X NJM2150AM-X	I.C (MONO-ANA) I.C (M) I.C (MONO-ANA) I.C (MONO-ANA) I.C (MONO-ANA) I.C (MYORID) I.C (MYORID) I.C (MONO-ANA) I.C (MONO-ANA) I.C (MONO-ANA)			
IC	21701 21951 21952	JLC1562BF-X BA09T BA08T	I.C(DIGI-MOS) I.C(MONO-ANA) I.C(MONO-ANA)			
	OTHE	RS				
J1 K1 K1 K1 K1 LC	V1013 1001 1001 1101-02 1301 1601-02 1102 1301-03	QGA2501C1-10 QNNQ296-001 NQRQ389-003X NQRQ389-003X NQRQ413-003X CE42681-001Y NQRQ431-001X NQRQ431-001X	W TO B CONNE PIN JACK FERRITE BEADS FERRITE BEADS BEADS CORE EMI FILTER EMI FILTER			
X1 X1	J1001 1101 1501 1612-13	QAU0276-001 CE42546-001Z QAX0549-001Z NCF21CZ-105X	TUNER CRYSTAL CRYSTAL C CAP.	1μF	16V	Z

# AV32X25EKGY

# ■ MAIN P.W. BOARD ASS'Y (SMF-1944A-U2)

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Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R1004-05 R1102 R1103-04 R1106 R1108 R1109-11 R1151 R1153	NRS.463J-101X NRS.463J-472X NRS.463J-103X NRS.463J-331X NRS.463J-102X NRS.463J-101X NRS.463J-101X NRS.463J-101X	MG R MG R MG R MG R MG R MG R MG R MG R	1000 1/16W J 4.7k0 1/16W J 10k0 1/16W J 3300 1/16W J 1k0 1/16W J 1000 1/16W J 1000 1/16W J 1000 1/16W J 1000 1/16W J
	R1156 R1158-59 R1161 R1301-02 R1303 R1304 R1311 R1312	NRS.463J-0ROX NRS.463J-0ROX NRS.463J-10ROX NRS.463J-101X NRS.463J-273X NRS.463J-102X NRS.463J-331X NRS.463J-273X	MG R MG R MG R MG R MG R MG R MG R	0.00 1/16W J 0.00 1/16W J 0.00 1/16W J 1000 1/16W J 27K0 1/16W J 1KΩ 1/16W J 3300 1/16W J 27K0 1/16W J
	R1313 R1314 R1315-17 R1317 R1318 R1319 R1321-22 R1325	NRSA63J-183X NRSA63J-221X NRSA63J-101X NRSA63J-101X NRSA63J-562X NRSA63J-183X NRSA63J-0ROX NRSA63J-101X	MG R MG R MG R MG R MG R MG R MG R	18K0 1/16W J 22Q0 1/16W J 10Q0 1/16W J 10Q0 1/16W J 5.6K0 1/16W J 18K0 1/16W J 0.Q0 1/16W J 10Q0 1/16W J
	R1326 R1401-02 R1403-04 R1405-06 R1451 R1454 R1455-56 R1457	NRS.663J-682X NRS.663J-102X NRS.663J-331X NRS.663J-102X NRS.663J-821X NRS.663J-472X NRS.663J-123X NRS.663J-392X	MG R MG R MG R MG R MG R MG R MG R	6.8kQ 1/16W J 1kQ 1/16W J 33QQ 1/16W J 1kQ 1/16W J 82QQ 1/16W J 4.7kQ 1/16W J 12kQ 1/16W J 3.9kQ 1/16W J
	R1458 R1459 R1461 R1462 R1463 R1464 R1465-66 R1467	NRSA63J-123X NRSA63J-472X NRSA63J-123X NRSA63J-153X NRSA63J-124X NRSA63J-563X NRSA63J-224X NRSA63J-563X	MG R MG R MG R MG R MG R MG R MG R	12kQ 1/16W J 4.7kQ 1/16W J 12kQ 1/16W J 15kQ 1/16W J 120kQ 1/16W J 56kQ 1/16W J 220kQ 1/16W J 56kQ 1/16W J 56kQ 1/16W J
	R1468 R1469 R1470 R1471 R1472 R1473 R1474 R1475	NRSA63J-224X NRSA63J-683X NRSA63J-223X NRSA63J-273X NRSA63J-663X NRSA63J-123X NRSA63J-563X NRSA63J-153X	MG R MG R MG R MG R MG R MG R MG R	220k0 1/16W J 68k0 1/16W J 22k0 1/16W J 27k0 1/16W J 6.8k0 1/16W J 12k0 1/16W J 56k0 1/16W J 15k0 1/16W J
	R1476-78 R1479 R1480 R1481 R1482 R1483 R1484 R1484	NRSA63J-123X NRSA63J-154X NRSA63J-823X NRSA63J-472X NRSA63J-272X NRSA63J-472X NRSA63J-473X NRSA63J-123X	MG R MG R MG R MG R MG R MG R MG R	12k0 1/16W J 150k0 1/16W J 82k0 1/16W J 4.7k0 1/16W J 2.7k0 1/16W J 4.7k0 1/16W J 47k0 1/16W J 12k0 1/16W J
	R1486 R1487 R1489 R1491 R1492 R1493 R1501 R1504	NRSA63J-472X NRSA63J-333X NRSA63J-333X NRSA63J-472X NRSA63J-562X NRSA63J-183X NRSA63J-0R0X NRSA63J-10XX	MG R MG R MG R MG R MG R MG R MG R	4.7kΩ 1/16W J 33kΩ 1/16W J 33kΩ 1/16W J 4.7kΩ 1/16W J 5.6kΩ 1/16W J 18kΩ 1/16W J 0.0Ω 1/16W J 1kΩ 1/16W J

ΔS	Symbol No.	Part No.	Part Name	Description
		STOR		
R R R R R	R1511 R1512 R1521 R1522 R1551 R1552 R1553 R1554	NRS#63J-152X NRS#63J-332X NRS#63J-223X NRS#63J-562X NRS#63J-100X NRS#63J-124X NRS#63J-683X NRS#63J-562X	MG R MG R MG R MG R MG R MG R MG R	1.5kΩ 1/16W J 3.3kΩ 1/16W J 22kΩ 1/16W J 5.6kΩ 1/16W J 10Ω 1/16W J 120kΩ 1/16W J 68kΩ 1/16W J 5.6kΩ 1/16W J
R R R R R	R1555 R1556 R1557 R1558 R1559 R1560 R1561 R1562	NRS:663J-333X NRS:663J-472X NRS:663J-562X NRS:663J-104X NRS:663J-154X NRS:663J-100X QRN143J-0R0X NRS:663J-683X	MG R MG R MG R MG R MG R C R MG R	33kΩ 1/16W J 4.7kΩ 1/16W J 5.6kΩ 1/16W J 100kΩ 1/16W J 150kΩ 1/16W J 10Ω 1/16W J 0.0Ω 1/4W J 68kΩ 1/16W J
R R R R R	R1563 R1564 R1565 R1591 R1592 R1595 R1596	NRSA63J-103X NRSA63J-223X NRSA63J-562X NRSA63J-561X NRSA63J-332X NRSA63J-222X NRSA63J-104X NRSA63J-104X NRSA63J-273X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/16W J 22kΩ 1/16W J 5.6kΩ 1/16W J 560Ω 1/16W J 3.3kΩ 1/16W J 2.2kΩ 1/16W J 100kΩ 1/16W J 27kΩ 1/16W J
R R R R R	R1602 R1603 R1604 R1605 R1606 R1609 R1610	NRS:463J-103X NRS:463J-273X NRS:463J-103X NRS:463J-473X NRS:463J-273X NRS:463J-104X NRS:463J-682X NRS:463J-333X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/16W J 27kΩ 1/16W J 10kΩ 1/16W J 47kΩ 1/16W J 27kΩ 1/16W J 100kΩ 1/16W J 6.8kΩ 1/16W J 33kΩ 1/16W J
R R R R	R1619 R1637 R1639 R1642-43 R1644 R1645-46 R1649	NRSA63J-104X NRSA63J-562X QRKLDGJ-2RZX NRSA63J-561X NRSA63J-681X NRSA63J-104X NRSA63J-0ROX QRKLDGJ-2R2X	MG R MG R C R MG R MG R MG R MG R	100kΩ 1/16W J 5.6kΩ 1/16W J 2.2Ω 1/2w J 560Ω 1/16W J 680Ω 1/16W J 100kΩ 1/16W J 0.0Ω 1/16W J 2.2Ω 1/2w J
R R R R	R1650-51 R1654-55 R1664-65 R1666 R1667 R1668 R1669 R1670-71	NRSA63J-103X NRSA63J-0R0X NRSA63J-103X NRSA63J-473X NRSA63J-183X NRSA63J-473X NRSA63J-183X NRSA63J-183X NRSA63J-104X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R R R R R	R1672 R1673 R1675 R1677 - 78 R1679 R1680 R1684 R1687	NRS:663J-223X NRS:663J-273X NRS:663J-103X NRS:663J-103X NRS:663J-223X NRS:663J-273X NRS:663J-0R0X NRS:663J-0R0X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R R R R R	R1701-02 R1703-04 R1705-08 R1711-12 R1714-15 R1714-15 R1772-76 R1772-76	NRS:663J-103X NRS:663J-102X NRS:663J-103X NRS:663J-101X NRS:663J-102X NRS:663J-102X NRS:663J-221X QRK:126J-220X	MG R MG R MG R MG R MG R MG R C R	10kΩ 1/16W J 1kΩ 1/16W J 10kΩ 1/16W J 100Ω 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 22ΩΩ 1/16W J 22ΩΩ 1/2W J
		CITOR	C CAD	2200E EOV V
	1001	NCB31HK-222X	C CAP.	2200pF 50V K

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C1002 C1004 C1005 C1006 C1007 C1009 C1010	NCB31HK-103X QETN1HM-106Z NCB31CK-104X	E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. E CAP. C CAP.	10μF 50V M 0.1μF 16V K 1000μF 16V M 0.01μF 50V K 10μF 50V M 0.1μF 16V K 10μF 50V M
	C1101 C1102 C1103 C1104 C1105 C1106-07 C1108 C1111	QETNICM-104X QETNIHM-106Z NCB31CK-104X NDC31HJ-680X	C CAP. E CAP. C CAP. E CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 16V K 10µF 50V M 0.1µF 16V K 100µF 16V M 10µF 50V M 0.1µF 16V K 68pF 50V J 0.01µF 50V K
	C1116 C1117-18 C1119-20 C1121 C1122-23 C1124-25 C1126 C1127	QETN1HM-106Z NCB31CK-104X	C CAP. C CAP. C CAP. C CAP. E CAP. C CAP. E CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	C1128 C1129 C1130 C1151-54 C1155-56 C1301 C1302-03 C1305-09	NCB31CK-104X NCF31AZ-105X QETNLHM-106Z NCF31AZ-105X NDC31HJ-102X QETNLCM-107Z NCB31CK-104X NCB31CK-104X	C CAP. C CAP. E CAP. C CAP.	$\begin{array}{cccc} 0.1_{\mu}F & 16V & K \\ 1\mu F & 10V & Z \\ 10\mu F & 50V & M \\ 1\mu F & 10V & Z \\ 1000 F & 50V & J \\ 100\mu F & 16V & M \\ 0.1_{\mu}F & 16V & K \\ 0.1_{\mu}F & 16V & K \\ \end{array}$
	C1310 C1311 C1312 C1313-15 C1316-18 C1320 C1321-23 C1324	NDC31H L_221Y	E CAP. CHIP CAP. C CAP.	2200 µF 10V M 0.088 µF 16V K 220 PF 50V J 0.022 µF 50V K 0.01 µF 50V K 2200 µF 6.3V M 0.022 µF 50V K 82 PF 50V J
	C1351 C1401 C1402 C1403-04 C1453 C1454 C1455-56 C1457		BP E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	10μF 25V M 0.1μF 16V K 100μF 16V M 0.1μF 16V K 0.01μF 50V K 0.033μF 25V K 0.1μF 16V K 0.033μF 25V K
	C1458 C1471 C1472 C1473 C1474 C1475 C1491 C1501-02	NCB31CK-104X NCB31CK-104X NCB31HK-103X NCB31CK-104X NCB31EK-333X NCB31CK-104X NCB31EK-473X NDC31HJ-150X	C C.P C C.P C C.P C C.P C C.P C C.P C C.P	0.1µF 16V K 0.1µF 16V K 0.01µF 50V K 0.1µF 16V K 0.03µF 25V K 0.1µF 16V K 0.047µF 25V K 15pF 50V J
	C1551-52 C1553 C1554-55 C1560 C1561 C1562 C1564 C1591	NCF31CZ-224X QETNLEM-476Z NCF31CZ-224X QETNLCM-107Z NDC31HJ-561X QETNLHM-105Z NCB31CK-104X NDC31HJ-471X	C C.P. E C.P. C C.P. E C.P. E C.P. C C.P. C C.P. C C.P. C C.P.	$\begin{array}{cccc} 0.22\mu F & 16V & Z \\ 47\mu F & 25V & M \\ 0.22\mu F & 16V & Z \\ 100\mu F & 16V & M \\ 560\rho F & 50V & J \\ 1\mu F & 50V & M \\ 0.1\mu F & 16V & K \\ 470\rho F & 50V & J \\ \end{array}$
	C15% C1600 C1606-07 C1616 C1618	NCB31CK-104X QETNLHM-226Z QETNLCM-227Z QETNLHM-105Z QETNLHM-105Z	C CAP. E CAP. E CAP. E CAP. E CAP.	0.1µF 16V K 22µF 50V M 220µF 16V M 1µF 50V M 1µF 50V M

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C1628 C1629 C1630 C1632 C1634 C1641-42 C1646-47 C1648-49	QETMLHM-107Z QETMLHM-106Z NCF21HZ-224X NCF21HZ-224X QETMLHM-228 NCF21HZ-224X NCB31HK-103X QETMLVM-108	E CAP. E CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP.	100 µF 50V M 10 µF 50V M 0.22 µF 50V Z 0.22 µF 50V Z 2200 µF 50V M 0.22 µF 50V Z 0.01 µF 50V K 1000 µF 35V M
	C1673-74 C1675 C1676-77 C1678-79 C1680 C1681 C1682 C1683	NCF31AZ-105X QETMLEM-476Z NDC31HJ-151X NDC31HJ-150X NCF31AZ-105X NCB31HK-332X NCB31HK-332X NCB31EK-333X QETMLEM-476Z	C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	1µF 10V Z 47µF 25V M 150pF 50V J 15pF 50V J 1µF 10V Z 3300pF 50V K 0.033 µF 25V K 47µF 25V M
	C1684 C1685 C1686 C1687 C1688 C1689 C1695 C1698	NCB31HK-332X NCB31EK-333X NCF31AZ-105X QETMIHM-106Z QETMIEM-476Z NCB31CK-104X NRSA63J-0R0X NRSA63J-0R0X	C CAP. C CAP. C CAP. E CAP. E CAP. C CAP. MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	C1699 C1701 C1702 C1951 C1952-53 C1954 C1955 C1956	NCB31HK-103X QETM1HM-106Z NCB31CK-563X QETM1CM-477Z NCB31CK-104X QETM1AM-477Z QETM1AM-227Z QETM1AM-107Z	C CAP. E CAP. CHIP CAP. E CAP.	0.01µF 50V K 10µF 50V M 0.056µF 16V K 470µF 16V M 0.1µF 16V K 470µF 10V M 220µF 10V M 100µF 10V M
	COIL	-		
	L1001 L1002-03 L1101 L1102 L1301-02 L1951	QQL244K-270Z QQL244K-100Z QRN143J-0R0X QQL244K-4R7Z NQL092K-1R5X QQL26AM-5R6Z	PEAKING COIL COIL C R COIL INDUCTOR CHOKE COIL	10μΗ Κ 0.0 <sub>Ω</sub> 1/4W J 4.7 <sub>μ</sub> Η Κ
	DIOD	E		
	D1317-18 D1319 D1320-21 D1471-74 D1475 D1521 D1591 D1592	MA111-X MA3036-X MA3056/M/-X MA111-X MA3240/M/-X MA111-X MA111-X MA3051/M/-X	SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE CHIP ZENER DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE	
	D1593 D1602 D1610-11 D1614-15 D1617 D1619-20 D1771-74 D1951	MA111-X MA111-X MA111-X MA111-X MA111-X MA3330/L/-X MA3056/M/-X 15R35-400A-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE	
	D1981-82	MA111-X	SI.DIODE	
	TRAN	IS I STOF	₹	
	01102 01301 01471-72 01561 01562 01591 01592 01601-02	25C2412K/QR/-X 25A1037AK/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X 25A1037AK/QR/-X 25A1037AK/QR/-X 25C2412K/QR/-X 25A1037AK/QR/-X	SI.TRANSISTOR	
_	Q1604-05 Q1606 Q1607 Q1615 Q1616-17	DTC124EKA-X 25C2412K/QR/-X DTA124EKA-X 25A1037AK/QR/-X DTC323TK-X	DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR	

Δ	Symbol No.	Part No.	Part Name	Description
	IC			
	IC1101 IC1301 IC1402 IC1471 IC1551 IC1601 IC1662 IC1663	MSP3415DQGB3GHX SDA9380 BA10324AF-XE BA10358F-XE LA6515 TA8246AH BA4558F-X NJM2150AM-X	I.C (MONO-ANA) I.C (M) I.C (MONO-ANA) I.C (MONO-ANA) I.C (MONO-ANA) I.C (MYBRID) I.C (MONO-ANA) I.C (MONO-ANA)	
	IC1701 IC1951 IC1952	JLC1562BF-X BA09T BA08T	I.C(DIGI-MOS) I.C(MONO-ANA) I.C(MONO-ANA)	
	OTHE	RS		
	CN1013 J1001 K1001 K1101-02 K1301 K1601-02 LC1102 LC1301-03	QGA2501C1-10 QNNQ296-001 NQRQ389-003X NQRQ313-003X NQRQ413-003X CE42681-001Y NQRQ431-001X NQRQ431-001X	W TO B CONNE PIN JACK FERRITE BEADS FERRITE BEADS BEADS CORE BEADS CORE EMI FILTER EMI FILTER	
	TU1001 X1101 X1501 Y1612-13	QAU0277-001 CE42546-001Z QAX0549-001Z NCF21CZ-105X	TUNER CRYSTAL CRYSTAL C CAP.	$1\mu\text{F}$ 16V Z

# AV32X25EUS / AV32X250EUS / AV32X25EIGY / AV32X25EKGY

## ■POWER & DEF. P.W. BOARD ASS'Y

(SMF-2404A-U2)

			(SMF-240	4A-U2)
Δ	Symbol No.	Part No.	Part Name	Description
_	RESI	STOR		
	R2401-02 R2403 R2404 R2405 R2406 R2407 R2408 R2409	QRE141J-562Y QRE141J-222Y QRX01GJ-1RO QRL029J-151 QRE141J-222Y QRX01GJ-2R2 QRX01GJ-1R5 QRE141J-823Y	C R C R MF R OM R C R MF R MF R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	R2410 R2421 R2422 R2461 R2462 R2463 R2464 R2468	QRE141J-103Y QRE141J-103Y QRE141J-274Y QRG029J-820 QRE141J-473Y QRE141J-682Y QRX01GJ-3R3 QRE141J-102Y	C R C R OM R C R C R MF R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	R2469 R2471 R2472 R2473 R2474 R2475 R2476 R2477	QRE141J-272Y QRE141J-391Y QRA14CF-1002Y QRE141J-473Y QRE141J-103Y QRE141J-102Y QRE141J-102Y QRE141J-563Y	C R C R MF R C R C R C R C R	2.7kΩ 1/4n J 390Ω 1/4n J 10kΩ 1/4n F 47kΩ 1/4n J 10kΩ 1/4n J 1kΩ 1/4n J 1kΩ 1/4n J 56kΩ 1/4n J
	R2478 R2501 R2502 R2503 R2504 R2505 R2506 R2521	QRE141J-333Y QRE141J-471Y QRE141J-123Y QRE121J-152Y QRL039J-272 QRL039J-332 QRE121J-5R6Y QRE121J-471Y	C R C R C R O M R O M R C R C R	33kΩ 1/4kl J 470Ω 1/4kl J 12kΩ 1/4kl J 1.5kΩ 1/2kl J 2.7kΩ 3kl J 3.3kΩ 3kl J 5.6Ω 1/2kl J 470Ω 1/2kl J
<u>A</u>	R2522 R2523 R2524 R2541 R2542 R2543 R2551 R2552	QRE141J-223Y QRE141J-103Y QRC121K-152Z QRE141J-182Y QRE141J-222Y QRE121J-272Y QRZ9022-R47 QRZ9022-R47	C R C R COMP.R C R C R F R F R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Δ	R2555 R2561 R2562 R2563 R2581 R2582 R2583 R2584	QRZ9022-R33 QRG01GJ-220 QRE121J-123Y QRZ0056-103Z QRF154K-4R7 QRE141J-681Y QRE121J-682Y QRE141J-183Y	F R OM R C R COMP R UNF R C R C R C R	0.33 Ω 1W K 22Ω 1W J 12kΩ 1/2M J 10kΩ 1/2W K 4.7Ω 15W K 680Ω 1/4W J 6.8kΩ 1/2W J 18kΩ 1/4W J
Δ Δ	R2585 R2586 R2587 R2588 R2591 R2901 R2902 R2903	QRE141J-222Y QRA14CF-6201Y QRA14CF-2801Y QRE141J-103Y QRZ9017-4R7 QRE121J-331Y QRF054K-3R3 QRF104K-3R9	C R MF R C R F R C R UNF R UNF R	2.2kΩ 1/4n J 6.2kΩ 1/4n F 2.8kΩ 1/4n F 10kΩ 1/4n J 4.7 Ω 1/4n J 330Ω 1/2n J 3.3Ω 5n K 3.9Ω 10W K
Δ	R2904 R2905-06 R2908-09 R2910 R2911 R2914 R2915 R2916	QRL039J-683 QRE121J-474Y QRL039J-823 QRZ9017-100 QRE121J-152Y QRM059J-R10 QRE121J-681Y QRE121J-332Y	OM R C R OM R F R C R MP R C R C R	68kΩ 3W J 470kΩ 1/2M J 82kΩ 3W J 10 Ω 1/4W K 1.5kΩ 1/2M J 0.10Ω 5W J 680Ω 1/2M J 3.3kΩ 1/2W J

Δ	Symbol No.	Part No.	Part Name	Description
_	RESI	STOR		
	R2931 R2932 R2933 R2944 R2945 R2946 R2951 R2952	QRE141J-1R0Y QRE141J-1R5Y QRE141J-1R8Y QRE141J-103Y QRE141J-563Y QRE141J-103Y QRE121J-102Y QRE039J-223	C R C R C R C R C R C R C R O R	1. ΩΩ 1/4W J 1.5Ω 1/4W J 1.8Ω 1/4W J 10ΚΩ 1/4W J 56ΚΩ 1/4W J 10ΚΩ 1/4W J 1κΩ 1/4W J 22ΚΩ 3W J
Δ	R2953 R2954 R2964 R2981 R2982 R2991	QRE141J-474Y QRE141J-103Y QRT039J-1R5 QRE141J-153Y QRE141J-102Y QRZ9046-825Z	C R C R MF R C R C R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	CAPA	CITOR		
	C2404 C2405 C2406 C2408 C2409-10 C2411 C2414 C2421	QCZ0120-104Z QDC31HJ-820Z QETMLVM-108 QETMLVM-337Z QFV71HJ-474Z QFLC2AJ-104Z QCB31HK-682Z QETMLHM-105Z	C CAP. C CAP. E CAP. E CAP. MF CAP. C CAP. C CAP.	$\begin{array}{cccc} 0.1\mu F & 25V & Z \\ 82pF & 50V & J \\ 1000\mu F & 35V & M \\ 330\mu F & 35V & M \\ 0.47\mu F & 50V & J \\ 0.1\mu F & 100V & J \\ 6800\rho F & 50V & K \\ 1\mu F & 50V & M \\ \end{array}$
	C2461 C2462 C2463 C2464 C2465 C2466 C2467 C2468	QEZQ414-226 QFM72DJ-152Z QFM72DJ-122Z QCZQ12O-104Z QETMLHM-106Z QFP31HJ-272Z QFLC1HJ-102Z QETMLEM-476Z	E CAP. M CAP. M CAP. C CAP. E CAP. M CAP. M CAP. E CAP. M CAP.	22μF 50V M 1500F 200V J 1200F 200V J 0.1μF 25V Z 10μF 50V M 2700F 50V J 47μF 25V M
Δ	C2470 C2471 C2501 C2502 C2508 C2521 C2522 C2523	QCS31HJ-470Z QFLC1HJ-103Z QCB32HK-331Z QFM7ZDK-103 QFV71HJ-224Z QFZ01Z2-11Z QFZ00Z-123 QFM7ZDK-393	C CAP. M CAP. C CAP. M CAP. M CAP. MF CAP. MPP CAP. MPP CAP. M CAP.	47pF 50V J 0.01μF 50V J 330pF 500V K 0.01μF 200V K 0.02μF 50V J 1100pF1.8kVH±3% 0.012μF1.5kVH±3% 0.039μF 200V K
Δ	C2524 C2526 C2527 C2529 C2530 C2531 C2532 C2541	QFP32JJ-183 QFZ0197-184 QFZ0194-104 QFZ0194-154 QCB32HK-561Z QFZ0194-534 QETM2CM-227 QENC1HM-105Z	PP CAP. MPP CAP. MPP CAP. MPP CAP. C CAP. MPP CAP. E CAP. E CAP.	0.018µF 630V J 0.18µF 250V J 0.1µF 250V J 0.15µF 250V J 560¢F 500V K 0.53µF 250V J 220µF 160V M 1µF 50V M
	C2551 C2552 C2553 C2554 C2555 C2556 C2558 C2559	QCB32HK-152Z QETNLCM-108Z QCB32HK-152Z QETNLCM-108Z QCB32HK-102Z QETNCEM-106Z QETNLCM-477Z QETNLCM-477Z QETRLCM-227Z	C CAP. E CAP. C CAP. E CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	1500pF 500V K 1000µF 16V M 1500pF 500V K 1000µF 16V M 1000pF 500V K 10µF 250V M 470µF 16V M 220µF 16V M
Δ Δ Δ	C2561 C2581 C2582 C2583 C2584 C2901 C2902 C2903	OFLC2AJ-223Z QETNLCM-107Z QETNLEM-476Z QETNLAM-106Z QETNLAM-227Z OF29072-473 QF29072-104 QF29072-473	M CAP. E CAP. E CAP. E CAP. E CAP. MM CAP. MM CAP. MM CAP.	0.022µF 100V J 100µF 16V M 47µF 25V M 10µF 100V M 220µF 10V M 0.047 µFAC275V K 0.1µFAC275V K

⚠	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
<u>A</u> <u>A</u>	C2904 C2905 C2906 C2907 C2908 C2909 C2910 C2911	QCZ9054-472 QCZ9054-472 QCZ9054-472 QEZ0199-227 QCB32HK-103 QCZ0340-391 QETNLHM-476Z QCB31HK-102Z	C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	470@FAC250V Z 470@FAC250V Z 470@FAC250V Z 220µF 400V M 0.01µF 500V K 390pF 2kV K 47µF 50V M 100@F 50V K
<u>A</u> <u>A</u>	C2912 C2914 C2915 C2916 C2931 C2932 C2933 C2934	QCZ0340-561 QCB31HK-471Z QFLC1HJ-104Z QCB32HK-152Z QCZ9054-472 QCZ9054-472 QCZ9054-472 QEZ9054-472 QEZ9054-472	C CAP. C CAP. M CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	560pF 2kV K 470pF 50V K 0.1µF 50V J 1500pF 500V K 4700pFAC250V Z 4700pFAC250V Z 4700pFAC250V Z 22µF 400V M
	C2941 C2942 C2951 C2952 C2955 C2956 C2957 C2959	QTMNLCM-477Z QETNLAM-337Z QEZ0203-227 QETNLCM-108Z QETNLAM-108Z QETNLAM-108Z QETNLAM-228Z QFV71HJ-684Z	E CAP. B CAP. MF CAP.	470µF 16V M 330µF 10V M 220µF 160V M 1000µF 16V M 2200µF 35V M 1000µF 10V M 2200µF 10V M 0.68µF 50V J
<u>A</u>	C2960 C2972-75 C2991 C2993	QCZ0325-821 QETN1AM-477Z QCZ9079-222 QCZ9079-471	C CAP. E CAP. C CAP. C CAP.	820pF 2kV K 470uF 10V M 2200pFAC250V M 470pFAC250V K
	TRAN	ISFORM	ER	
҈	T2501 T2551 T2561 T2901	QQR1111-001 QQH0127-001 QQR1096-001 QQS0156-001	DRIVE TRANSF H.V.TRANSF. DEF.TRANSF SWITCH.TRANSF.	
	COIL	=		
	L2461 L2462 L2521 L2522 L2552 L2561 L2901-02 L2908	QQR1195-001 QQL2028-272 QQL2031-180 QQR1191-002 QQL26AK-220Z QQL26AK-272 QQL401K-100Z QQR1200-001	CHOKE COIL CHOKE COIL LINEARITY COIL COIL CHOKE COIL CHOKE COIL CHOKE COIL CHOKE COIL	2 ДиН К
	L2951 L2959-60 L2961	QQL <i>Z</i> 026-460 QQL26AK-220Z QQL26AM-4R7Z	HEATER CHOKE COIL CHOKE COIL	22µН К
	DIOE	ÞΕ		
	D2402 D2421 D2461 D2462 D2463 D2501 D2521 D2522	15R35-400A-T2 15S133-T2 RCP10J-5025-T3 15S133-T2 15S133-T2 15S81-T5 V11CA-C1 FMV-3FU-F1	SI.DIODE	
	D2523 D2524 D2541 D2542 D2551 D2552 D2553 D2582	MTZJ22B-T2 15R35-400A-T2 RGP10J-5025-T3 MTZJ3.9B-T2 RGP10J-5025-T3 RGP10J-5025-T3 RH1S-T3 MTZJ7.5B-T2	ZENER DIODE S1.DIODE S1.DIODE ZENER DIODE S1.DIODE S1.DIODE S1.DIODE S1.DIODE ZENER DIODE	
<u>A</u>	D2588 D2584 D2901 D2902 D2904 D2905 D2906 D2907	MTZ.J7.55-T2 RGP10J-5025-T3 D3S&0 RG1C-LFA1 EU2A-T2 15S133-T2 MTZ.J27B-T2 15S133-T2	ZENER DIODE SI.DIODE BRIOGE DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE	

Δ	Symbol No.	Part No.	Part Name	Description
	DIO	ÞΕ		
Δ	D2908 D2910 D2911 D2931 D2945 D2951 D2952 D2953	1SS133-T2 MTZJ15B-T2 1SS133-T2 S1WB/A/60-4101 1SS133-T2 RU4AM-LFT2 RGP10J-5025-T3 RU4AM-LFT2	SI.DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
	D2955 D2956 D2958 D2959 D2961 D2981 D2984 D2985	RU3YX-LFC4 RCP10J-5025-T3 MTZJ33B-T2 RU3YX-LFC4 15S133-T2 15S133-T2 15S133-T2 15S133-T2	SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
	TRAN	1S I STO	R	
Δ	Q2421 Q2422 Q2461 Q2462-63 Q2464 Q2501 Q2521 Q2581	DTC124ESA-T 25C1740S/QR/-T 25K2459N-F54 25C1740S/QR/-T 25A33AS/QR/-T B5N304-T 25C5552-RL 25A1208/ST/Z1-T	DIGI.TRANSISTOR SI.TRANSISTOR F.E.T. SI.TRANSISTOR SI.TRANSISTOR F.E.T. SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	Н. ОИТ
	Q2582 Q2583 Q2941-42	DTC144ESA-T 2SC1740S/QR/-T 2SC1740S/QR/-T	DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
	IC			
Δ	IC2401 IC2461 IC2551 IC2901 IC2902 IC2951 IC2954 IC2955	AN5523 BA10393 BA12T STR-F6667B/F7 QAL0425-001 SE140N BA05T NJM2396F33	I.C(M) I.C(MONO-ANA) I.C(MONO-ANA) I.C(HYBRID) P.W.B.NODULE I.C(HYBRID) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA)	
	ОТНЕ	RS		
<u>A</u>	CN2004-06 CN2014 CP2951-53 CP2955 K2401 K2522-24 K2901 LF2901	QGB1506M1 - 16 QGA2501C5 - 06Z ICP - N75 - Y ICP - N75 - Y QQR0621 - 002Z CE41832 - 001 QQR0679 - 001 QQR1095 - 001	CONNECTOR EH POST HEADER I.C.PROTECT I.C.PROTECT BEADS CORE LEAD CORE FERRITE BEADS LINE FILTER	
<u>A</u>	PC2901 RY2931 TH2901	PC123FY2 QSK0099-001 QAD0133-9R0	I.C(PH.COUPLER) RELAY P.THEMISTOR	

## ■CRT SOCKET P.W. BOARD ASS'Y

(SMF-3404A-U2)

Δ	Symbol No.	Part No.	(SMF-34	<b>IO4A-U2)</b> Description
ш	•	STOR	Ture name	Description
	R3101 R3102 R3103 R3104 R3105 R3106 R3107 R3109	NRSA63J-223X NRSA63J-681X NRSA63J-101X NRSA63J-822X NRSA63J-102X NRSA63J-221X NRSA63J-561X NRSA63J-513X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	R3110 R3111 R3112 R3113 R3114 R3115 R3116 R3117	NRS.463J-222X NRS.463J-182X NRS.463J-272X NRS.463J-331X NRS.463J-152X NRS.463J-820X QRG01GJ-101 NRS.463J-221X	MG R MG R MG R MG R MG R OM R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	R3122 R3123 R3124 R3125 R3126 R3127 R3128 R3129-30	NRS.463J - 122X QRE121J - 563Y NRS.463J - 470X QRE121J - 563Y NRS.463J - 470X NRS.463J - 122X NRS.463J - 390X QRE121J - 2R7Y	MG R C R MG R C R MG R MG R MG R	$\begin{array}{ccccc} 1.2 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 56 k_{\Omega} & 1/2 \text{W} & \text{J} \\ 47 \Omega & 1/16 \text{W} & \text{J} \\ 56 k_{\Omega} & 1/2 \text{W} & \text{J} \\ 47 \Omega & 1/16 \text{W} & \text{J} \\ 1.2 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 39 \Omega & 1/16 \text{W} & \text{J} \\ 2.7 \Omega & 1/2 \text{W} & \text{J} \end{array}$
Δ	R3131 R3132 R3133 R3134 R3204-06 R3211 R3223-25 R3227	NRSA63J-390X NRSA63J-121X QRLQ29J-391 QRZ9921-561 NRSA63J-272X NRSA63J-154X NRSA63J-272X NRSA63J-103X	MG R MG R OM R F R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	R3228 R3229-31 R3232-34 R3235-37 R3239 R3241 R3242 R3244	NRSA63J-272X QRL029J-104-F NRSA63J-332X QRC121K-152Z QRZ0107-474Z QRZ0107-105Z NRSA63J-103X NRSA63J-102X	MG R OM R MG R COMP.R C R C R MG R	$\begin{array}{ccccc} 2.7 \text{k}\Omega & 1/16 \text{W} & \text{J} \\ 100 \text{k}\Omega & 2 \text{W} & \text{J} \\ 3.3 \text{k}\Omega & 1/16 \text{W} & \text{J} \\ 1.5 \text{k}\Omega & 1/2 \text{W} & \text{K} \\ 470 \text{k}\Omega & 1/2 \text{W} & \text{K} \\ 1.0 \text{k}\Omega & 1/2 \text{W} & \text{K} \\ 10 \text{k}\Omega & 1/16 \text{W} & \text{J} \\ 1 \text{k}\Omega & 1/16 \text{W} & \text{J} \\ \end{array}$
	R3245-47 R3301-02 R3303-04 R3305 R3306 R3310	NRSA63J-562X QRE121J-474Y NRSA63J-223X NRSA63J-562X NRSA63J-392X NRSA63J-0ROX	MG R C R MG R MG R MG R	5.6kΩ 1/16W J 470kΩ 1/2W J 22kΩ 1/16W J 5.6kΩ 1/16W J 3.9kΩ 1/16W J 0.0Ω 1/16W J
	CAPA		C CAD	0.0-5 50/ 1
	C3102 C3103 C3104 C3106 C3107 C3110 C3111 C3113	NDC31HJ-8ROX NDC31HJ-151X QCB31HK-103Z QETNLHM-335Z QETNLCM-107Z QETN2CM-106Z QCB32HK-472Z QETN2CM-106Z	C CAP. C CAP. E CAP. E CAP. E CAP. C CAP. C CAP.	8.0pF 50V J 150pF 50V J 0.01µF 50V K 3.3µF 50V M 100µF 16V M 4700pF 500V K 10µF 160V M
	C3114 C3116-17 C3118 C3120-21 C3201-03 C3204-06 C3207-09 C3210-12	QCB32HK-472Z QETNLAM-107Z QETNLAM-337Z NDC31HJ-221X NDC31HJ-8ROX NCF31CZ-104X QETNLEM-476Z QFK62EK-104Z	C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. E CAP. MM CAP.	4700pF 500V K 100μF 10V M 330μF 10V M 220pF 50V J 8.0pF 50V J 0.1μF 16V Z 47μF 25V M 0.1μF 250V K
	C3213-15 C3216 C3218 C3219 C3221 C3302	NDC31HJ-181X QETNLCM-107Z QETV2EM-336 QFZW97-223 QETV2EM-106Z QETNLHM-106Z	C CAP. E CAP. E CAP. MM CAP. E CAP. E CAP.	180pF 50V J 100µF 16V M 33µF 250V M 0.022µF 1250V K 10µF 250V M 10µF 50V M

Δ	Symbol No.	Part No.	Part Name	Description
	COIL	-		
	L3101 L3204	QQL244K-5R6Z QQL26AJ-102Z	COIL	5.6μΗ K 1mH J
	DIOD	Ε		_
	D3101-02 D3103 D3104 D3204-06 D3208-10 D3211 D3212-13 D3301	MA111-X RH15-T3 RH15-T3 EU01N-T2 15R124-400A-T2 MA3062/M/-X MA3130/H/-X MA111-X	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENR DIODE ZENR DIODE SI.DIODE	
	D3303	MA111-X	SI.DIODE	
	TRANSISTOR			
	Q3101 Q3102 Q3103 Q3104 Q3105 Q3108 Q3109 Q3301	2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC1906-T 2SC2412K/QR/-X 2SC1627A/OY/-T 2SA1837 2SC4793 2SA1037AK/QR/-X	SI.TRANSISTOR	
	IC			
	IC3201-03	TDA6111Q	I.C(MONO-ANA)	
	OTHE	RS		
Δ	K3101 K3103-04 K3105 SG3201-03 SK3001 W3003 W3022	CE41492-001Z CE41492-001Z 00R0621-002Z 0AF0056-501Z 0NZ080-001 00R0679-001 0QR0679-001	CHOKE COIL CHOKE COIL BEADS CORE VARISTOR C.R.T.SOCKET FERRITE BEADS FERRITE BEADS	

## ■ SIDE CONTROL P.W. BOARD ASS'Y

(SMF-8104A-U2)

			(SIVIE -0	104A-U2)	
⚠	Symbol No.	Part No.	Part Name	Descripti	on
	RESI	STOR			
	R8001-02 R8010 R8012-13 R8021-22	QRE121J-271Y NRSA63J-103X NRSA63J-103X NRSA63J-102X	C R MG R MG R MG R	$\begin{array}{ccc} 270\Omega & 1/2\mathrm{W} \\ 10\mathrm{k}\Omega & 1/16\mathrm{W} \\ 10\mathrm{k}\Omega & 1/16\mathrm{W} \\ 1\mathrm{k}\Omega & 1/16\mathrm{W} \end{array}$	] ]
	CAPA	ACITOR			J
	C8001-02 C8003 C8010-11 C8021	NCB31HK-103X NDC31HJ-680X NCB31HK-472X NCB31CK-104X	C CAP. C CAP. C CAP. C CAP.	$\begin{array}{ccc} 0.01 \mu F & 50 V \\ 68 p F & 50 V \\ 4700 p F & 50 V \\ 0.1 \mu F & 16 V \end{array}$	K J K K
	COIL	=			
	L8001 L8002-03 L8010-11 L8012	QQR0716-001Z QQL244K-5R6Z QQL244K-270Z QQR0716-001Z	LEAD CORE COIL PEAKING COIL LEAD CORE	5.6μΗ	K
	ОТНЕ	RS			,
	J8001 J8003 LC8002 S8001 S8002 S8003	QMS3001-C01 QNZ0438-001 NQR0169-001X QSW0619-003Z QSW0619-003Z QSW0619-003Z	3.5 JACK JACK EMI FILTER PUSH SWITCH PUSH SWITCH PUSH SWITCH		MENU CH DOWN CH UP

## ■FRONT CONTROL P.W. BOARD ASS'Y

(SMF-8404	A-U	12)
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₫	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		_
	R8005 R8008 R8035 R8039	NRSA63J-221X NRSA63J-102X QRE121J-151Y NRSA63J-331X	MG R MG R C R MG R	$\begin{array}{cccc} 220\Omega & 1/16\text{W} & \text{J} \\ 1\text{k}\Omega & 1/16\text{W} & \text{J} \\ 150\Omega & 1/2\text{W} & \text{J} \\ 330\Omega & 1/16\text{W} & \text{J} \end{array}$
	CAPA	CITOR		
₫	C8004 C8019 C8022 C8901	NCB31CK-104X QETN1CM-107Z QETN1EM-476Z QFZ9072-474	C CAP. E CAP. E CAP. MF CAP.	0.1 <sub>H</sub> F 16V K 100 <sub>H</sub> F 16V M 47 <sub>H</sub> F 25V M 0.47 <sub>H</sub> FAC275V K
	DIOD	ÞΕ		
	D8010 D8011 D8014 D8018	SPR-39MVWF MA111-X MA3068/M/-X MA3033-X	L.E.D. SI.DIODE ZENER DIODE ZENER DIODE	
	TRAN	ISISTOF	₹	
	Q8002 Q8003-04	DTC124EKA-X DTA124EKA-X	DIGI.TRANSISTOR DIGI.TRANSISTOR	
	IC			_
	IC8001	GP1U281Q	IFR DETECT UNIT	
	OTHE	RS		_
<u>A</u>	F8901 LF8901 S8901	LC30849-001A-H CEMG002-001Z QMF51D2-3R15J1 QQR1095-001 QSW0824-001	L.E.D.HOLDER FUSE CLIP FUSE LINE FILTER PUSH SWITCH	3.15A Main Power

## ■MICOM P.W. BOARD ASS'Y (SMF0M401A-U2)

Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R0001 R0002 R0003-05 R0006 R0007-08 R0009-11 R0012 R0013	NRSA63J-102X NRSA63J-104X NRSA63J-102X NRSA63J-152X NRSA63J-102X NRSA63J-103X NRSA63J-273X NRSA63J-221X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 1 k\Omega & 1/16 \text{W} & \text{J} \\ 100 k\Omega & 1/16 \text{W} & \text{J} \\ 1 k\Omega & 1/16 \text{W} & \text{J} \\ 1.5 k\Omega & 1/16 \text{W} & \text{J} \\ 1 k\Omega & 1/16 \text{W} & \text{J} \\ 10 k\Omega & 1/16 \text{W} & \text{J} \\ 27 k\Omega & 1/16 \text{W} & \text{J} \\ 220 \Omega & 1/16 \text{W} & \text{J} \end{array}$
	R0014 R0015 R0016-17 R0018 R0022 R0027 R0030 R0032	NRSA63J-102X NRSA63J-473X NRSA63J-103X NRSA63J-102X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-472X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 1 k \Omega & 1/15 \text{W} & \text{J} \\ 47 k \Omega & 1/16 \text{W} & \text{J} \\ 10 k \Omega & 1/16 \text{W} & \text{J} \\ 1 k \Omega & 1/16 \text{W} & \text{J} \\ 4.7 k \Omega & 1/16 \text{W} & \text{J} \\ 4.7 k \Omega & 1/16 \text{W} & \text{J} \\ 4.7 k \Omega & 1/16 \text{W} & \text{J} \\ 4.7 k \Omega & 1/16 \text{W} & \text{J} \\ 4.7 k \Omega & 1/16 \text{W} & \text{J} \end{array}$
	R0034-53 R0055 R0057-77 R0081 R0087 R0089-91	NRSA63J-OROX NRSA63J-OROX NRSA63J-OROX NCF31CZ-104X NRSA63J-221X NRSA63J-221X	MG R MG R MG R C CAP. MG R MG R	$\begin{array}{cccc} 0.0\Omega & 1/16W & J \\ 0.0\Omega & 1/16W & J \\ 0.0\Omega & 1/16W & J \\ 0.1\mu F & 16V & Z \\ 220\Omega & 1/16W & J \\ 220\Omega & 1/16W & J \end{array}$

Δ Symbol No.	Part No.	Part Name	Description
RES	ISTOR		<u> </u>
R0092 R0093 R0094 R0095 R0096 R0097 R0098 R0099	NRSA63J-472X NRSA63J-221X NRSA63J-472X NRSA63J-473X NRSA63J-221X NRSA63J-102X NRSA63J-0R0X NRSA63J-102X	MG R	4.7kΩ 1/16W J 2200 1/16W J 4.7kΩ 1/16W J 47kΩ 1/16W J 2200 1/16W J 1kΩ 1/16W J
R0100-02 R0103-06 R0107 R0110 R0111 R0112 R0113-14 R0119	NRSA63J-102X NRSA63J-103X NRSA63J-102X NRSA63J-102X NRSA63J-103X NRSA63J-103X NRSA63J-563X	MG R MG R MG R MG R MG R MG R MG R	1kQ 1/16W J 10k0 1/16W J 1kQ 1/16W J 1kQ 1/16W J 10k0 1/16W J 10k0 1/16W J 10k0 1/16W J 10k0 1/16W J 56k0 1/16W J
R0120 R0121 R0122 R0123 R0124 R0125-28 R0129 R0130	NRSA63J-332X NRSA63J-182X NRSA63J-103X NRSA63J-682X NRSA63J-101X NRSA63J-472X NRSA63J-823X NRSA63J-104X	MG R MG R MG R MG R MG R MG R MG R	3.3kΩ 1/16W J 1.8kΩ 1/16W J 10kΩ 1/16W J 6.8kΩ 1/16W J 100Ω 1/16W J 4.7kΩ 1/16W J 82kΩ 1/16W J 100kΩ 1/16W J
R0131 R0133 R0136 R0137-39 R0144 R0147 R0151 R0152-54	NRSA63J-OROX NRSA63J-OROX NRSA63J-103X NRSA63J-222X NRSA63J-103X NRSA63J-472X NRSA63J-183X NRSA63J-221X	MG R MG R MG R MG R MG R MG R MG R	0.00 1/16W J 0.00 1/16W J 10K0 1/16W J 2.2K0 1/16W J 10K0 1/16W J 4.7K0 1/16W J 18K0 1/16W J 2200 1/16W J
R0155-56 R0157 R0138 R0165 R0166 R0167 R0168 R0169	NRSÆ3J-101X NRSÆ3J-0R0X NRSÆ3J-221X NRSÆ3J-103X NRSÆ3J-223X NRSÆ3J-103X NRSÆ3J-471X NRSÆ3J-472X	MG R MG R MG R MG R MG R MG R MG R	1000 1/16W J 0.00 1/16W J 2200 1/16W J 10km 1/16W J 22k0 1/16W J 10km 1/16W J 10km 1/16W J 4700 1/16W J 4.7km 1/16W J
CAPA	ACITOR	1	
C0001 C0002 C0003 C0004 C0005-06 C0007 C0012-13 C0014	QETNOJM-477Z NCF31CZ-104X NCB11CK-225X QETNOJM-108Z NCB11CK-225X NEH71CM-476X NCF31CZ-104X NCB31HK-682X	E CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	$\begin{array}{ccccc} 470\mu F & 6.3V & M \\ 0.1\mu F & 16V & Z \\ 2.2\mu F & 16V & K \\ 1000\mu F & 6.3V & M \\ 2.2\mu F & 16V & K \\ 47\mu F & 16V & M \\ 0.1\mu F & 16V & Z \\ 68000 F & 50V & K \\ \end{array}$
C0017 C0019 C0020 C0021 C0022 C0023 C0024 C0027 - 28	NDC31HJ-150X NEH71CM-476X NCF31CZ-104X NEH71CM-476X NCF31AZ-105X NCB31EK-333X NCF31CZ-104X NEH71CM-476X	C CAP. E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C0029 C0030-32 C0034-39 C0040 C0041 C0042-43 C0045-47 C0048	NDC31HJ-151X NCF31CZ-104X NCF31CZ-104X NDC31HJ-330X NDC31HJ-270X NCF31CZ-104X NCF31CZ-104X NEH71CM-476X	C CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C0049-50 C0051 C0052-57 C0059-61	NCF31CZ-104X NEH71CM-476X NCF31CZ-104X NEH71CM-106X	C CAP. E CAP. C CAP. E CAP.	0.1 <sub>µ</sub> F 16V Z 47 <sub>µ</sub> F 16V M 0.1 <sub>µ</sub> F 16V Z 10 <sub>µ</sub> F 16V M

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C0062 C0063-65	NRSA63J-OROX NDC31HJ-820X	MG R C CAP.	0.0Ω 1/16W J 82pF 50V J
	COIL	=		
	L0001 L0003 L0005-08 L0009 L0010-14 L0015-16 L0017-22	NQL092K-4R7X NQL092K-4R7X NQL092K-4R7X NQL034K-4R7X NQL092K-4R7X NQL092K-4R7X NQL092K-1R5X	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	
	DIO	ÞΕ		
	D0001-02 D0003 D0004 D0005-08	MA111-X MA3068/M/-X MA3027-X MA3056/M/-X	SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
	TRAN	IS I STOP	₹	
	Q0001-02 Q0007-08 Q0009-12 Q0021-22	2SC2712/YG/-X 2SA1162/YG/-X 2SC2712/YG/-X 2SC2712/YG/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
	IC			
	IC0001 IC0002 IC0003 IC0004 IC0005 IC0901	SDA6000 MR27V1652EB6RAZ K4S161622D-TC80 AT24LC-28X25EU S-80828CNNB-W BA33C25FP-X	I.C(M) I.C(M) I.C(D-RAM) I.C I.C(M) I.C(M)	(SER/ICE)
	ОТНЕ	RS		
	CN0001 K0001 K0002 K0003 K0004 K0005 LC0001 LC0002	QGB1505K1-50 NRSA63J-390X NQR0389-003X NRSA63J-0ROX NQR0389-003X NRSA63J-0ROX NQR0313-007X NQR0431-001X	CONNECTOR MG R FERRITE BEADS MG R FERRITE BEADS MG R EMI FILTER EMI FILTER	$39_\Omega$ 1/16W J $0.0_\Omega$ 1/16W J $0.0_\Omega$ 1/16W J
_	X0001	QAX0669-001Z	CRYSTAL	

# ■ AV SW P.W. BOARD ASS'Y (SMF0S402-U2)

A Symbol No		Part Name	Description
∆ Symbol No.	STOR	rai t Naiie	
R0101-09 R0110-11 R0112-13 R0114 R0115 R0116 R0117 R0118	NRS/63J-750X NRS/63J-103X NRS/63J-823X NRS/63J-823X NRS/63J-473X NRS/63J-823X NRS/63J-223X NRS/63J-223X	MG R	75Ω 1/16W J 10kΩ 1/16W J 82kΩ 1/16W J 33kΩ 1/16W J 47kΩ 1/16W J 82kΩ 1/16W J 22kΩ 1/16W J 47kΩ 1/16W J
R0119 R0120 R0121 R0122 R0123 R0124 R0125 R0126	NRSA63J-153X NRSA63J-273X NRSA63J-222X NRSA63J-473X NRSA63J-823X NRSA63J-153X NRSA63J-223X NRSA63J-473X	MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R0127 R0128-29 R0130-31 R0132 R0133 R0134 R0135 R0136	NRSA63J-273X NRSA63J-823X NRSA63J-891X NRSA63J-222X NRSA63J-333X NRSA63J-222X NRSA63J-333X NRSA63J-103X	MG R	27kΩ 1/16W J 82kΩ 1/16W J 39ΩΩ 1/16W J 2.2kΩ 1/16W J 33kΩ 1/16W J 2.2kΩ 1/16W J 33kΩ 1/16W J 10kΩ 1/16W J
R0137 R0138-39 R0140 R0141 R0142-80143-44 R0145 R0146	NRSÆ3J-222X NRSÆ3J-333X NRSÆ3J-222X NRSÆ3J-333X NRSÆ3J-222X NRSÆ3J-333X NRSÆ3J-103X NRSÆ3J-473X	MG R	$\begin{array}{ccccc} 2.2 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 33 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 2.2 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 33 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 2.2 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 33 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 33 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 10 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 47 k_{\Omega} & 1/16 \text{W} & \text{J} \end{array}$
R0147 R0148 - 49 R0150 - 51 R0152 - 67 R0168 R0169 R0170 R0171	NRSA63J-223X NRSA63J-391X NRSA63J-104X NRSA63J-101X NRSA63J-750X NRSA63J-222X NRSA63J-333X NRSA63J-750X	MG R	22 kΩ 1/16W J 39 cΩ 1/16W J 100 kΩ 1/16W J 10 cΩ 1/16W J 75 Ω 1/16W J 2.2 kΩ 1/16W J 33 kΩ 1/16W J 75 Ω 1/16W J
R0172 R0173 R0174 R0175 R0176 R0177 R0178 R0179	NRSÆ3J-222X NRSÆ3J-333X NRSÆ3J-750X NRSÆ3J-333X NRSÆ3J-103X NRSÆ3J-153X NRSÆ3J-153X NRSÆ3J-473X	MG R	2.2kΩ 1/16W J 33kΩ 1/16W J 75Ω 1/16W J 33kΩ 1/16W J 10kΩ 1/16W J 82kΩ 1/16W J 15kΩ 1/16W J 47kΩ 1/16W J
R0180 R0181-82 R0183-84 R0185-90 R0191 R0192 R0194-95 R0196	NRSA63J-273X NRSA63J-562X NRSA63J-102X NRSA63J-101X NRSA63J-222X NRSA63J-101X NRSA63J-221X QRG01GJ-101	MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R0197 R0198 R0199 R0200 R0201 R0208-05	QRK126J-181X NRSAGJ-750X NRSAGJ-101X NRSAGJ-750X QRK126J-151X NRSAGJ-750X	C R MG R MG R MG R C R MG R	18Ω 1/2W J 75Ω 1/16W J 10Ω 1/16W J 75Ω 1/16W J 75Ω 1/16W J 15ΩΩ 1/2W J 75Ω 1/16W J
	ACITOR		
C0101-10 C0111-12 C0113-14 C0115-17 C0118-19 C0120 C0121	NCB31HK-472X QETNLCM-477Z NCB31HK-102X QETNLHM-106Z QETNLHM-105Z NCB31HK-103X QETNLHM-105Z	C CAP. E CAP. C CAP. E CAP. C CAP. E CAP. C CAP.	$\begin{array}{cccc} 4700\text{DF} & 50\text{V} & \text{K} \\ 470_{\mu}\text{F} & 16\text{V} & \text{M} \\ 1000\text{F} & 50\text{V} & \text{K} \\ 10_{\mu}\text{F} & 50\text{V} & \text{M} \\ 1_{\mu}\text{F} & 50\text{V} & \text{M} \\ 0.01_{\mu}\text{F} & 50\text{V} & \text{K} \\ 1_{\mu}\text{F} & 50\text{V} & \text{M} \\ \end{array}$

Δ	Symbol No.	Part No.	Part Name	Des	cription
	CAPA	CITOR			
	C0122 C0123 C0124 C0125 C0126-28 C0129 C0130 C0131	QETMLHM-106Z QETMLHM-105Z NCB31HK-103X NCB31HK-102X QETMLHM-106Z QETMLHM-105Z NCB31HK-103X QETMLHM-105Z	E CAP. E CAP. C CAP. C CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	10µF 1µF 0.01µF 1000pF 10µF 1µF 0.01µF	50V M 50V K 50V K 50V M 50V M 50V M 50V K 50V M
	C0132 C0133 C0134 C0135 C0136 C0137 C0138-39 C0140	NCB31HK-103X QETN1HM-106Z QETNLHM-105Z QETNLHM-106Z QETNLHM-105Z NCB31HK-103X QENC1HM-105Z QENC1EM-106Z	C CAP. E CAP. E CAP. E CAP. E CAP. C CAP. E CAP. E CAP. BP E CAP.	0.01 <sub>µ</sub> F 10 <sub>µ</sub> F 1µF 10µF 1µF 0.01µF 1µF	50V K 50V M 50V M 50V M 50V M 50V K 50V M 25V M
	C0141-47 C0148 C0149 C0150-51 C0152 C0153	NCB31HK-103X QETN1HM-106Z QENC1EM-106Z QETN1CM-107Z QETN1CM-477Z NCB31HK-103X	C CAP. E CAP. BP E CAP. E CAP. E CAP. C CAP.	0.01µF 10µF 10µF 100µF 470µF 0.01µF	50V K 50V M 25V M 16V M 16V M 50V K
	C0154 C0155	QETNICM-107Z NDC31HJ-150X	E CAP. C CAP.	100µF 15pF	16V M 50V J
	COIL	-			
	L0101	QQR0716-001Z	LEAD CORE		
	DIOD	ÞΕ			
	D0101-04 D0109-13 D0114 D0115-17	MA3056/M/-X MA3120/M/-X MA3039/H/-X MA3056/M/-X	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
	TRAN	IS I STOF	₹		
	Q0101-02 Q0103-05 Q0106-09 Q0110 Q0111 Q0112 Q0113-15 Q0116	25C2412K/QR/-X DTC323TK-X 25C2412K/QR/-X 25A1037AK/QR/-X DTC323TK-X 25A1037AK/QR/-X 25C2412K/QR/-X 25C3412K/QR/-X 25A333AS/QR/-T	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		
	Q0117	2SC1740S/QR/-T	SI.TRANSISTOR		
	IC				
	IC0101	CXA2069Q	I.C (MONO-ANA)		
	OTHE	RS		_	
	CN0001 J0001 J0002 K0101-04	QGB1505K1-50 QNZ0465-001 QNZ0463-001 CE42681-001Y	CONNECTOR PIN CONNECTOR PIN CONNECTOR BEADS CORE		

# ■100Hz P.W. BOARD ASS'Y (SMF0Z404A-U2)

DOAILD	700 .	(SIVIFUZ4U4A-U2)
Part No.	Part Name	Description
STOR		
NRS.463J-0R0X NRS.463J-332X NRS.463J-222X NRS.463J-222X NRS.463J-322X NRS.463J-750X NRS.463J-0R0X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 0.0\Omega & 1/16W & J \\ 100\Omega & 1/16W & J \\ 3.3 k_{\Omega} & 1/16W & J \\ 2.2 k_{\Omega} & 1/16W & J \\ 2.3 k_{\Omega} & 1/16W & J \\ 3.3 k_{\Omega} & 1/16W & J \\ 2.2 k_{\Omega} & 1/16W & J \\ 75\Omega & 1/16W & J \\ 0.0\Omega & 1/16W & J \\ \end{array}$
NRS.463J-101X NRS.463J-100X NRS.463J-100X NRS.463J-121X NRS.463J-101X NRS.463J-0R0X NRS.463J-0R0X NRS.463J-103X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 100\Omega & 1/16W & J \\ 10\Omega & 1/16W & J \\ 10\Omega & 1/16W & J \\ 12\Omega\Omega & 1/16W & J \\ 12\Omega\Omega & 1/16W & J \\ 10\Omega\Omega & 1/16W & J \\ 0.\Omega\Omega & 1/16W & J \\ 0.\Omega\Omega & 1/16W & J \\ 10 \Omega\Omega & 1/16W & J \\ \end{array}$
NRSA63J-333X NRSA63J-103X NRSA63J-822X NRSA63J-222X NRSA63J-750X NRSA63J-391X NRSA63J-221X NRSA63J-271X	MG R MG R MG R MG R MG R MG R MG R	33KΩ 1/16W J 10kΩ 1/16W J 8.2kΩ 1/16W J 2.2kΩ 1/16W J 75Ω 1/16W J 390Ω 1/16W J 220Ω 1/16W J 270Ω 1/16W J
NRS.663J-272X NRS.663J-472X NRS.663J-222X NRS.663J-291X NRS.663J-222X NRS.663J-391X NRS.663J-102X NRS.663J-104X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 2.7 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 4.7 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 2.2 \text{KG} & 1/16 \text{W} & \text{J} \\ 3.9 \text{GC} & 1/16 \text{W} & \text{J} \\ 1 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 100 \text{k}_{\Omega} & 1/16 \text{W} & \text{J} \end{array}$
NRS.463J-101X NRS.463J-152X NRS.463J-473X NRS.463J-472X NRS.463J-0R0X NRS.463J-0R0X NRS.463J-0R0X	MG R MG R MG R MG R MG R MG R	100Ω 1/16W J 1.5kΩ 1/16W J 47kΩ 1/16W J 4.7kΩ 1/16W J 0.0Ω 1/16W J
CITOR		
NCB31CK-104X NEH7ICM-476X NCB31CK-104X NEH7ICM-476X NCB31CK-104X NEH7ICM-476X NDC31HJ-4R0X NEH71CM-106X	C CAP. E CAP. C CAP. E CAP. C CAP. C CAP. E CAP. E CAP. C CAP.	0.1µF 16V K 47µF 16V M 0.1µF 16V K 47µF 16V M 0.1µF 16V M 0.1µF 16V K 47µF 16V M 4.0µF 50V J 10µF 16V M
NCB31EK-473X NEH71CM-476X NCB31HK-152X NDC31HJ-102X NCB31CK-104X NCF31CZ-224X NCB31HK-152X NDC31HJ-391X	C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.047 µF 25V K 47µF 16V M 1500pF 50V K 1000pF 50V J 0.1µF 16V K 0.22µF 16V Z 1500pF 50V K 390pF 50V J
NEH7ICM-106X NCB31EK-473X NDC31HJ-331X NCF31CZ-224X NDC31HJ-331X NDC31HJ-380X NCB31CK-104X NCF31CZ-224X	E CAP. C CAP.	10µF 16V M 0.047µF 25V K 330pF 50V J 0.22µF 16V Z 330pF 50V J 3.0pF 50V J 0.1µF 16V K 0.22µF 16V Z
NDC31HJ-391X NCB31HK-152X NCB31EK-473X NCB31HK-152X NCB31CK-683X	C CAP. C CAP. C CAP. C CAP. CHIP CAP.	390pF 50V J 1500pF 50V K 0.047 μF 25V K 1500pF 50V K 0.068 μF 16V K
	Part No.  STOR  NRSA63J-0ROX NRSA63J-101X NRSA63J-332X NRSA63J-332X NRSA63J-3222X NRSA63J-322X NRSA63J-222X NRSA63J-750X NRSA63J-750X NRSA63J-100X NRSA63J-100X NRSA63J-100X NRSA63J-100X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-221X NRSA63J-22X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-22X NRSA63J-221X NRSA63J-221X NRSA63J-222X NRSA63J-222X NRSA63J-22X NRSA63J-222X NRSA63J-222X NRSA63J-222X NRSA63J-222X NRSA63J-22X NRSA63J-104X NRSA6	Part No. Part Name  ESTOR  NRSA63J-0ROX MG R NRSA63J-101X MG R NRSA63J-332X MG R NRSA63J-322X MG R NRSA63J-222X MG R NRSA63J-222X MG R NRSA63J-222X MG R NRSA63J-10ROX MG R NRSA63J-10ROX MG R NRSA63J-10OX MG R NRSA63J-222X MG R NRSA63J-391X MG R NRSA63J-271X MG R NRSA63J-10OX MG R N

## AV32X25EUS / AV32X250EUS AV32X25EIGY / AV32X25EKGY

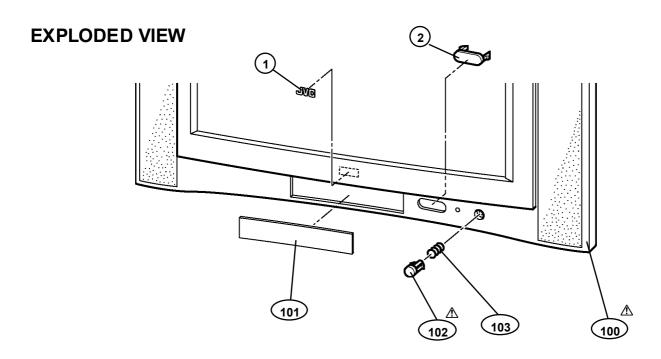
Δ	Symbol No.	Part No.	Part Name	Des	cription
	CAPA	CITOR			
	C0136-37 C0138 C0139 C0140 C0141 C0201 C0202-05 C0206	NCB31CK-683X NCB31HK-152X NCB31EK-473X NEH7ICM-476X NDC31H)-100X NEH7ICM-476X NCB31CK-104X NEH7ICM-476X	CHIP CAP. C CAP. E CAP. E CAP. E CAP. C CAP. E CAP. E CAP. C CAP.	0.068 µF 1500pF 0.047 µF 47µF 10pF 47µF 0.1µF	16V K 50V K 25V K 16V M 50V J 16V M 16V K 16V M
	C0207-11 C0212-13 C0214-17 C0218 C0219 C0220-29 C0231-35 C0237-38	NCB31CK-104X NDC31HJ-180X NCB31CK-104X NDC31HJ-561X NDE31HJ-561X NCB31CK-104X NCB31CK-104X NCB31CK-104X NEH71CM-106X	C CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. E CAP. E CAP.	0.1µF 18pF 0.1µF 560pF 47µF 0.1µF 10µF	16V K 50V J 16V K 50V J 16V M 16V K 16V K
	C0239-42 C0251 C0252-53 C0254 C0255 C0266 C0261 C0262-63	NCB31CK-104X NDC31HJ-4R0X NCB31CK-104X NDC31HJ-120X NDC31HJ-270X NEH71CM-106X NDC31HJ-4R0X NCB31CK-104X	C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 4.0pF 0.1µF 12pF 27pF 10µF 4.0pF 0.1µF	16V K 50V J 16V K 50V J 50V J 16V M 50V J 16V K
	C0264 C0265 C0271 C0272-73 C0274 C0275 C0281 C0282	NDC 31HJ - 120X NDC 31HJ - 270X NDC 31HJ - 4R0X NCB 31CK - 104X NDC 31HJ - 120X NDC 31HJ - 270X NCF 31AZ - 105X NEH71CM - 476X	C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	12pF 27pF 4.0pF 0.1µF 12pF 27pF 1µF 47µF	50V J 50V J 50V J 16V K 50V J 50V J 10V Z 16V M
	C0283-85 C0286 C0301 C0302-03 C0402-03 C0404	NCB31CK-104X NEH71CM-106X NEH71CM-476X NCB31CK-104X NCB31CK-104X NDC31HJ-330X	C CAP. E CAP. E CAP. C CAP. C CAP. C CAP.	0.1µF 10µF 47µF 0.1µF 0.1µF 33pF	16V K 16V M 16V M 16V K 16V K 50V J
	COIL	-			_
	L0001-03 L0101 L0102-08 L0109 L0201-05 L0207-08 L0209-10 L0211	NQL092K-1R5X NQL034K-150X NQL092K-3R3X NQL034K-6R8X NQL034K-100X NQL034K-100X NQL092K-1R5X NQR0413-003X	INDICTOR INDICTOR INDICTOR INDICTOR INDICTOR INDICTOR INDICTOR INDICTOR BEADS CORE		
	L0251 L0261 L0271	NQL092K-5R6X NQL092K-5R6X NQL092K-5R6X	INDUCTOR INDUCTOR INDUCTOR		
	DIOD	ΡE			
	D0401	MA111-X	SI.DIODE		
		IS I STOF			
	Q0101-02 Q0201 Q0251-52 Q0253 Q0261 Q0271 Q0301-03	2SA1037AK/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		
	IC				
	IC0101 IC0201 IC0202 IC0203 IC0212 IC0213 IC0301	VPC3230D-QA-B3 SAA4979H/V105 SAA4994H/V1 SAA4955HL/V1 R1170H251B-X TC7WH32FK-X TDA9178T/N1-X	I.C (M) I.C (M) I.C I.C I.C (MONO-ANA) I.C (MONO-ANA) I.C (MONO-ANA)		

Δ	Symbol No.	Part No.	Part Name	Description
	IC			
	IC0401 IC0402	S-80828CNNB-W TC7WH34FU-X	I.C(M) I.C(DIGI-MOS)	
	ОТНЕ	RS		
	CN0003 LC0010-12 LC0013 LC0014-15 X0101 X0201	QGB1505K1-50 NQR0313-009X NQR0313-004X NQR0313-007X QAX0655-001Z QAX0273-001Z	CONNECTOR EMI FILTER EMI FILTER EMI FILTER CRYSTAL CRYSTAL	

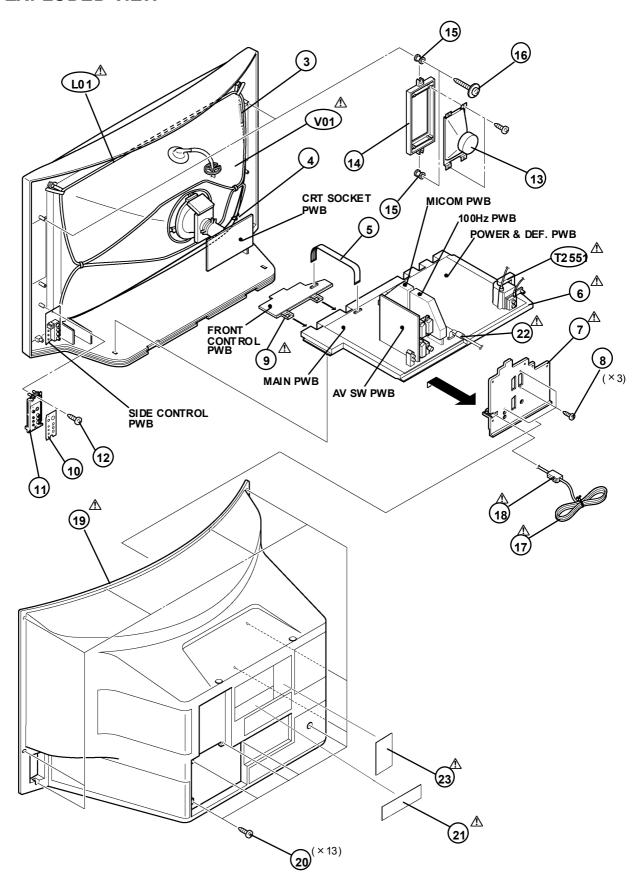
# **EXPLODED VIEW PARTS LIST**

# AV28X25EUS / AV28X25EIGY / AV28X25EKGY

<u>∧</u> Ref.No.	Part No.	Part Name	Description
1 1 2	LC41250-002A-C LC41250-001C-C LC31851-001B-C	JVC MARK JVC MARK WINDOW	[AV28 X25 EUS] [AV28 X25 E I GY] [AV28 X25 EKG Y]
<b>100</b>	LC11313-004B-U LC11313-003B-U LC21065-001A-U	F. CABINET ASSY F. CABINET ASSY CENTER PANEL	Inc. No. 101~103[AV28X25EUS] Inc. No. 101~103[AV28X25EIGY][AV28X25E
∆ 102 103	LC 312 01 - 001A - U LC 312 01 - 004A - U AE M31 49 - 001 - E	POWER KNOB SPRING	(SERVICE)
⚠ V01 ⚠ L01 ⚠ T2551 3	W6 6QD E99 3X92 5 QQ W01 00-001 QQ H01 26-001 WJ Y00 01-011A	ITC TUBE (C) DE GAUSSING COIL H. V. TRANSF. BRAIDED ASSY	Inc. DY, PC MAGNET, WEDGE
4 5	WJ Y00 13-002A CHFD1 25-11BD	BRAIDED SUB ASSY FFC WIRE	CN-1
<u>↑</u> 6 <u>↑</u> 7	LC 107 16-002F-U LC 110 10-004A-U	CHASSIS BASE TERMINAL BOARD	
8 <u>↑</u> 9 10 11	QY SBS B30 12M LC 113 11-001B-U LC 312 05-002A-U LC 108 56-001C-U	TAPPING SCREW CONTROL BASE CONTROL SHEET SIDE CONTROL BASE	(x 3)
12 13	QY SBS AG4 016N QA S01 09-001	TAPPING SCREW SPEAKER	SP 01-02 (x 2)
14 15	LC 113 10-001A-U LC 402 26-003A-H	SPEAKER ADAPTER SPACER	(x 2) (x 4)
16 <b>▲ 17</b> <b>▲ 17</b> <b>↑</b> 18	LC 405 06-001A QM PK1 60-185-JC QM PN1 30-185-JC CM 466 18-A01-E	TAPPING SCREW POWER CORD POWER CORD POWER CORD CLAMP	(×4) Cn-Pw[av28x25eus] Cn-Pw[av28x25e1gy][av28x25ekgy]
<b>↑</b> 19 20 <b>↑ 21</b> <b>↑ 21</b>	LC11282-001C-U QYSBSAG4016N LC11414-004A-U LC11364-010A-U	REAR COVER TAPPING SCREW RATING LABEL RATING LABEL	(x 13) [AV28 X25 EUS] [AV28 X25 EIGY]
<b>⚠ 21</b> <b>⚠</b> 22	<b>LC 113 64-009A-U</b> QQ R04 91-001	<b>RATING LABEL</b> FILTER	[A V28 X25 EKGY ]
<u>^</u> 22 <b>∆</b> 23	LC30789-002B-U	WARNING LABEL	[A V28 X25 EUS]



# **EXPLODED VIEW**



# AV28X25EUS / AV28X25EIGY

# PRINTED WIRING BOARD PARTS LIST

# ■ MAIN P.W. BOARD ASS'Y (SMF-1403A-U2)

<u>∧</u> Symbol No.	Part No.	Part Name	Description
RES	ISTOR		
R1004-06 R1008-09 R1102 R1103 R1104 R1105 R1106 R1108	NRSA63J-101X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-222X NRSA63J-102X NRSA63J-561X NRSA63J-331X NRSA63J-102X	MG R	$\begin{array}{c} 100\Omega \ 1/16\text{W} \ J \\ 0.0\Omega \ 1/16\text{W} \ J \\ 0.0\Omega \ 1/16\text{W} \ J \\ 2.2\text{k}\Omega \ 1/16\text{W} \ J \\ 1\text{k}\Omega \ 1/16\text{W} \ J \\ 560\Omega \ 1/16\text{W} \ J \\ 330\Omega \ 1/16\text{W} \ J \\ 1\text{k}\Omega \ 1/16\text{W} \ J \\ \end{array}$
R1109-11 R1151 R1153 R1156 R1158-59 R1161 R1301-02 R1303	NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-0ROX NRSA63J-0ROX NRSA63J-0ROX NRSA63J-101X NRSA63J-273X	MG R	$\begin{array}{c} 100\Omega \ 1/16W \ J \\ 100\Omega \ 1/16W \ J \\ 100\Omega \ 1/16W \ J \\ 0.0\Omega \ 1/16W \ J \\ 100\Omega \ 1/16W \ J \\ 27k\Omega \ 1/16W \ J \\ \end{array}$
R1304 R1311 R1312 R1313 R1314 R1315-17 R1318 R1319	NRSA63J-102X NRSA63J-331X NRSA63J-273X NRSA63J-183X NRSA63J-221X NRSA63J-101X NRSA63J-562X NRSA63J-183X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{c} 1 k \Omega \ 1/16 \text{W} \ J \\ 330 \Omega \ 1/16 \text{W} \ J \\ 27 k \Omega \ 1/16 \text{W} \ J \\ 18 k \Omega \ 1/16 \text{W} \ J \\ 220 \Omega \ 1/16 \text{W} \ J \\ 100 \Omega \ 1/16 \text{W} \ J \\ 5.6 k \Omega \ 1/16 \text{W} \ J \\ 18 k \Omega \ 1/16 \text{W} \ J \\ \end{array}$
R1321-22 R1325 R1326 R1401-02 R1403-04 R1405-06 R1451 R1454	NRSA63J-0R0X NRSA63J-101X NRSA63J-682X NRSA63J-102X NRSA63J-331X NRSA63J-102X NRSA63J-102X NRSA63J-821X NRSA63J-472X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 0.0\Omega & 1/16\text{W} & \text{J} \\ 100\Omega & 1/16\text{W} & \text{J} \\ 6.8 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 1 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 330\Omega & 1/16\text{W} & \text{J} \\ 1 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 820\Omega & 1/16\text{W} & \text{J} \\ 4.7 \text{K}\Omega & 1/16\text{W} & \text{J} \end{array}$
R1455-56 R1457 R1458 R1459 R1461 R1462 R1463 R1465-66	NRSA63J-123X NRSA63J-392X NRSA63J-123X NRSA63J-472X NRSA63J-123X NRSA63J-123X NRSA63J-104X NRSA63J-224X	MG R	$\begin{array}{cccc} 12 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 3.9 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 12 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 4.7 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 12 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 15 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 100 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 220 k_{\Omega} & 1/16 \text{W} & \text{J} \end{array}$
R1467 R1468 R1469 R1470 R1471 R1472 R1473 R1474	NRSA63J-563X NRSA63J-224X NRSA63J-683X NRSA63J-273X NRSA63J-273X NRSA63J-682X NRSA63J-123X NRSA63J-563X	MG R	56kΩ 1/16W J 220kΩ 1/16W J 68kΩ 1/16W J 22kΩ 1/16W J 27kΩ 1/16W J 6.8kΩ 1/16W J 12kΩ 1/16W J 56kΩ 1/16W J
R1475 R1476-78 R1479 R1480 R1481 R1482 R1483 R1484	NRS <i>A</i> 63J-153X NRS <i>A</i> 63J-123X NRSA63J-154X NRS <i>A</i> 63J-823X NRS <i>A</i> 63J-472X NRS <i>A</i> 63J-272X NRS <i>A</i> 63J-472X NRS <i>A</i> 63J-473X	MG R	15kΩ 1/16W J 12kΩ 1/16W J 150kΩ 1/16W J 82kΩ 1/16W J 4.7kΩ 1/16W J 2.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J
R1485 R1486 R1487 R1489 R1491 R1492 R1501 R1504	NRSA63J-123X NRSA63J-472X NRSA63J-183X NRSA63J-333X NRSA63J-332X NRSA63J-562X NRSA63J-0ROX NRSA63J-102X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 12 k\Omega & 1/16 \text{W} & \text{J} \\ 4.7 k\Omega & 1/16 \text{W} & \text{J} \\ 18 k\Omega & 1/16 \text{W} & \text{J} \\ 33 k\Omega & 1/16 \text{W} & \text{J} \\ 3.3 k\Omega & 1/16 \text{W} & \text{J} \\ 5.6 k\Omega & 1/16 \text{W} & \text{J} \\ 0.0\Omega & 1/16 \text{W} & \text{J} \\ 1 k\Omega & 1/16 \text{W} & \text{J} \\ \end{array}$

<b>∆</b> Sy	mbol No.	Part No.	Part Name	Description
F	RESI	STOR		
R1 R1 R1 R1 R1	511 512 521 522 551 552 553 554	NRSA63J-152X NRSA63J-332X NRSA63J-223X NRSA63J-562X NRSA63J-100X NRSA63J-124X NRSA63J-683X NRSA63J-562X	MG R MG R MG R MG R MG R MG R MG R	1.5kΩ 1/16W J 3.3kΩ 1/16W J 22kΩ 1/16W J 5.6kΩ 1/16W J 120kΩ 1/16W J 120kΩ 1/16W J 68kΩ 1/16W J 5.6kΩ 1/16W J
R1 R1 R1 R1 R1	555 556 557 558 559 560 561	NRSA63J-333X NRSA63J-472X NRSA63J-562X NRSA63J-104X NRSA63J-154X NRSA63J-100X QRN143J-0ROX NRSA63J-683X	MG R MG R MG R MG R MG R MG R MG R	33kΩ 1/16W J 4.7kΩ 1/16W J 5.6kΩ 1/16W J 100kΩ 1/16W J 150kΩ 1/16W J 10Ω 1/16W J 0.Ω 1/4W J 68kΩ 1/16W J
R1 R1 R1 R1 R1	563 564 565 591 592 595 596 601	NRSA63J-103X NRSA63J-223X NRSA63J-562X NRSA63J-561X NRSA63J-332X NRSA63J-222X NRSA63J-104X NRSA63J-273X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/16W J 22kΩ 1/16W J 5.6kΩ 1/16W J 56QΩ 1/16W J 3.3kΩ 1/16W J 2.2kΩ 1/16W J 100kΩ 1/16W J 27kΩ 1/16W J
R1 R1 R1 R1 R1	602 603 604 605 606 609 610 618	NRSA63J-103X NRSA63J-273X NRSA63J-103X NRSA63J-473X NRSA63J-273X NRSA63J-104X NRSA63J-682X NRSA63J-333X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1 R1 R1 R1 R1	619 620 637 639 642 - 43 644 645 - 46 649	NRSA63J-104X NRSA63J-562X QRK126J-2R2X NRSA63J-561X NRSA63J-681X NRSA63J-104X NRSA63J-0ROX QRK126J-2R2X	MG R MG R C R MG R MG R MG R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1 R1 R1 R1 R1	650-51 654-55 664-65 666 667 668 669 670-71	NRSÆ3J-103X NRSÆ3J-0R0X NRSÆ3J-103X NRSÆ3J-473X NRSÆ3J-183X NRSÆ3J-473X NRSÆ3J-183X NRSÆ3J-183X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/16W J 0. QΩ 1/16W J 10kΩ 1/16W J 47kΩ 1/16W J 18kΩ 1/16W J 47kΩ 1/16W J 18kΩ 1/16W J 10kΩ 1/16W J
R1 R1 R1 R1 R1	672 673 675 677 - 78 679 680 684 687	NRSA63J-223X NRSA63J-273X NRSA63J-103X NRSA63J-103X NRSA63J-223X NRSA63J-273X NRSA63J-0R0X NRSA63J-0R0X	MG R MG R MG R MG R MG R MG R MG R	22kΩ 1/16W J 27kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 22kΩ 1/16W J 27kΩ 1/16W J 0.0Ω 1/16W J 0.0Ω 1/16W J
R1 R1 R1 R1 R1	701-02 703-04 705-08 711-12 714-15 720-22 772-76 951	NRSA63J-103X NRSA63J-102X NRSA63J-103X NRSA63J-101X NRSA63J-102X NRSA63J-102X NRSA63J-221X QRK126J-220X	MG R MG R MG R MG R MG R MG R C R	10kΩ 1/16W J 1kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 22ΩΩ 1/16W J 22ΩΩ 1/2W J

▲ Symbol No.	Part No.	Part Name	Description
CAPA	ACITOR	2	
C1001 C1002 C1004 C1005 C1006 C1007 C1009 C1010	NCB31HK-222X QETM1HM-106Z NCB31CK-104X QETMLCM-108Z NCB31HK-103X QETM1HM-106Z NCB31CK-104X QETM1HM-106Z	C CAP. E CAP. E CAP. C CAP. C CAP. E CAP. E CAP. E CAP. C CAP.	2200pF 50V K 10µF 50V M 0.1µF 16V K 1000µF 16V M 0.01µF 50V M 0.1µF 50V M 0.1µF 50V M
C1101 C1102 C1108 C1104 C1105 C1106-07 C1108 C1111	NCB31CK-104X QETM1HM-106Z NCB31CK-104X QETM1CM-107Z QETM1HM-106Z NCB31CK-104X NDC31HJ-680X NCB31HK-103X	C CAP. E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 16V K 10µF 50V M 0.1µF 16V K 100µF 16V M 10µF 50V M 0.1µF 16V K 68pF 50V J 0.01µF 50V K
C1116 C1117-18 C1119-20 C1121 C1122-23 C1124-25 C1126 C1127	NCB31HK-472X NCB31HK-103X NDC31HJ-2R0X NCB31HK-103X NDC31HJ-102X QETM.HM-106Z NCB31CK-104X QETM.HM-106Z	C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP. E CAP. E CAP.	4700pF 50V K 0.01 <sub>p</sub> F 50V K 2.00pF 50V J 0.01 <sub>p</sub> F 50V J 10upF 50V M 0.1 <sub>p</sub> F 50V M 10upF 50V M
C1128 C1129 C1130 C1151-54 C1155-56 C1301 C1302-03 C1305-09	NCB31CK-104X NCF31AZ-105X QETN1HM-106Z NCF31AZ-105X NDC31HJ-102X QETNLCM-107Z NCB31CK-104X NCB31CK-104X	C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 16V K 1µF 10V Z 10µF 50V M 1µF 10V Z 1000PF 50V J 100µF 16V M 0.1µF 16V K 0.1µF 16V K
C1310 C1311 C1312 C1313-15 C1316-18 C1320 C1321-23 C1324	QETMLAM-228Z NCB31CK-683X NDC31HJ-221X NCB31HK-223X NCB31HK-103X QETMOJM-228Z NCB31HK-223X NDC31HJ-820X	E CAP. CHIP CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP.	2200µF 10V M 0.088µF 16V K 220pF 50V J 0.022µF 50V K 0.01µF 50V K 2200µF 6.3V M 0.022µF 50V K 82pF 50V J
C1351 C1401 C1402 C1402-04 C1453 C1454 C1455-56 C1457	QENC1EM-106Z NCB31CK-104X QETM1CM-107Z NCB31CK-104X NCB31HK-103X NCB31EK-333X NCB31CK-104X NCB31EK-333X	BP E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	10µF 25V M 0.1µF 16V K 100µF 16V M 0.1µF 16V K 0.01µF 50V K 0.033µF 25V K 0.1µF 16V K 0.033µF 25V K
C1471 C1472 C1473 C1474 C1475 C1491 C1501-02 C1551-52	NCB31CK-104X NCB31HK-103X NCB31CK-104X NCB31EK-333X NCB31CK-104X NCB31EK-473X NDC31HJ-150X NCF31CZ-224X	C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 16V K 0.01µF 50V K 0.1µF 16V K 0.033µF 25V K 0.1µF 16V K 0.047µF 25V K 15pF 50V J 0.22µF 16V Z
C1553 C1554-55 C1560 C1561 C1562 C1564 C1591 C1596	QETNLEM-476Z NCF31CZ-224X QETNLCM-107Z NDC31HJ-561X QETNLHM-105Z NCB31CK-104X NDC31HJ-471X NCB31CK-104X	E C.P C C.P E C.P C C.P C C.P C C.P C C.P	47µF 25V M 0.22µF 16V Z 100µF 16V M 560µF 50V J 1µF 50V M 0.1µF 16V K 470µF 50V J 0.1µF 16V K

⚠ Symbol No. Part No. Part Name	Description
CAPACITOR	
C1600 QETNLHM-226Z E CAP. 22µ C1606-07 QETNLCM-227Z E CAP. 220µ C1616 QETNLHM-105Z E CAP. 1 C1618 QETNLHM-105Z E CAP. 1 C1628 QETNLHM-107Z E CAP. 100µ C1629 QETNLHM-106Z E CAP. 100µ C1630 NCF21HZ-224X C CAP. 0.22µ C1632 NCF2LHZ-224X C CAP. 0.22µ	uF 16V M uF 50V M uF 50V M uF 50V M uF 50V M uF 50V Z
C1634 QETMLHM-228 E CAP. 2200 µ C1641-42 NCF2LHZ-224X C CAP. 0.22µ C1646-47 NCB31HK-103X C CAP. 0.01µ C1648-49 QETMLWM-108 E CAP. 1000 µ C1673-74 NCF3LAZ-105X C CAP. 1µ C1675 QETMLEM-476Z E CAP. 47, C1676-77 NDC31HJ-151X C CAP. 1507 C1678-79 NDC31HJ-150X C CAP. 15	uF 50V Z uF 50V K uF 35V M uF 10V Z uF 25V M oF 50V J
C1680 NCF31AZ-105X C CAP. 1, C1681 NCB31HK-332X C CAP. 3300p C1682 NCB31EK-333X C CAP. 0.033 p C1683 QFTNLEM-476Z E CAP. 47p C1684 NCB31HK-332X C CAP. 3300p C1685 NCB31EK-333X C CAP. 3300p C1686 NCB31EK-333X C CAP. 0.033 p C1686 NCF31AZ-105X C CAP. 1, C1687 QETNLHM-106Z E CAP. 10p	oF 50V K uF 25V K uF 25V M oF 50V K uF 25V K uF 10V Z
	uF 16V K Ω 1/16W J Ω 1/16W J uF 50V K uF 50V M uF 16V K
C1952-53         NCB31CK-104X         C CAP.         0.1µ           C1954         QETNLAM-477Z         E CAP.         470µ           C1955         QETNLAM-227Z         E CAP.         220µ           C1956         QETNLAM-107Z         E CAP.         100µ	μF 10V M μF 10V M
COIL	
L1001 QQL244K-270Z PEAKING COIL L1002-03 QQL244K-100Z COIL L1101 QRNH43J-QROX C R 0.0 L1102 QQL24K-4R7Z COIL L1301-02 NQL092K-1R5X INDUCTOR L1951 QQL26AM-5R6Z CHOKE COIL	10μΗ Κ Ω 1/4W J 4.7 <sub>μ</sub> Η Κ
DIODE	
D1317-18 MA111-X SI.DIODE D1319 MA3086-X ZENER DIODE D1320-21 MA3066/M - X ZENER DIODE D1471-74 MA111-X SI.DIODE D1475 MA3340/M/- X CHIP ZENER DIODE D1521 MA111-X SI.DIODE D1591 MA111-X SI.DIODE D1592 MA3061/M/- X ZENER DIODE	
D1593 MA111-X SI.DIODE D1600 MA111-X SI.DIODE D1610-11 MA111-X SI.DIODE D1614-15 MA111-X SI.DIODE D1617 MA111-X SI.DIODE D1619-20 MA3330/L/-X ZENER DIODE D1771-74 MA3G6/M/-X ZENER DIODE D1951 1SR35-400A-T2 SI.DIODE	
D1981-82 MA111-X SI.DIODE	

Δ	Symbol No.	Part No.	Part Name	Description
	TRAN	IS I STOF	₹	
	01101-02 01301 01471-72 01561 01562 01591 01592 01601-02	2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X	SI. TRANSISTOR	
	Q1604-05 Q1606 Q1607 Q1615 Q1616-17	DTC124EKA-X 2SC2412K/QR/-X DTA124EKA-X 2SA1037AK/QR/-X DTC323TK-X	DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR	
	IC101 IC1301 IC1402 IC1471 IC1551 IC1601 IC1662 IC1663	MSP 34 15 DQGB 3 GHX SDA 3380 BA 103 24 AF - XE BA 103 58 F - XE LA 65 15 TA 8 24 6 AH BA 4538 F - X NJM 21 50 AM - X	I.C (MONO-ANA) I.C (M) I.C (M) I.C (M) I.C (MONO-ANA) I.C (MONO-ANA) I.C (MYBRID) I.C (MONO-ANA) I.C (MONO-ANA)	
	IC1701 IC1951 IC1952	JLC1562BF-X BA09T BA08T	I.C(DIGI-MOS) I.C(MONO-ANA) I.C(MONO-ANA)	
	OTHE	RS		
	CN1013 J1001 K1001 K1101-02 K1301 K1601-02 LC1102 LC1301-03	QGA2501C1-10 QNNQ296-001 NQRQ389-003X NQRQ389-003X NQRQ413-003X CE42681-001Y NQRQ431-001X NQRQ431-001X	W TO B CONNE PIN JACK FERRITE BEADS FERRITE BEADS BEADS CORE BEADS CORE BEADS CORE EMI FILTER EMI FILTER	
_	X1101 X1501 TU1001 Y1612-13	CE42546-001Z QAX0549-001Z QAU0276-001 NCF21CZ-105X	CRYSTAL CRYSTAL TUNER C CAP.	1μF 16V Z

# AV28X25EKGY

# ■ MAIN P.W. BOARD ASS'Y (SMF-1943A-U2)

	Death Me	Prof. None	New to the
<u>∧</u> Symbol No.	Part No.	Part Name	Description
RES: R1004-05 R1102 R1108-04 R1106 R1108 R1109-11 R1151 R1153	NRSA63J-101X NRSA63J-472X NRSA63J-103X NRSA63J-103X NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-101X	MG R MG R MG R MG R MG R MG R MG R	1000 1/16W J 4.7k0 1/16W J 10k0 1/16W J 3300 1/16W J 1k0 1/16W J 1000 1/16W J 1000 1/16W J 1000 1/16W J
R1156 R1158-59 R1161 R1301-02 R1303 R1304 R1311 R1312	NRSA63J-OROX NRSA63J-OROX NRSA63J-OROX NRSA63J-101X NRSA63J-273X NRSA63J-102X NRSA63J-331X NRSA63J-273X	MG R MG R MG R MG R MG R MG R MG R	0.02 1/16W J 0.02 1/16W J 0.02 1/16W J 0.02 1/16W J 1002 1/16W J 27k0 1/16W J 1k0 1/16W J 3302 1/16W J 27k0 1/16W J
R1313 R1314 R1315-17 R1318 R1319 R1321-22 R1325 R1326	NRSA63J-183X NRSA63J-221X NRSA63J-101X NRSA63J-562X NRSA63J-183X NRSA63J-0R0X NRSA63J-101X NRSA63J-682X	MG R MG R MG R MG R MG R MG R MG R	18k0 1/16W J 22Q0 1/16W J 10Q0 1/16W J 5.6k0 1/16W J 18k0 1/16W J 0.Q0 1/16W J 10Q0 1/16W J 6.8k0 1/16W J
R1401 - 02 R1408 - 04 R1405 - 06 R1451 R1454 R1455 - 56 R1457 R1458	NRSA63J-102X NRSA63J-331X NRSA63J-102X NRSA63J-821X NRSA63J-472X NRSA63J-123X NRSA63J-392X NRSA63J-123X	MG R MG R MG R MG R MG R MG R MG R	1kΩ 1/16W J 33Ω 1/16W J 1kΩ 1/16W J 82ΩΩ 1/16W J 4.7kΩ 1/16W J 12kΩ 1/16W J 3.9kΩ 1/16W J 12kΩ 1/16W J
R1459 R1461 R1462 R1463 R1465-66 R1467 R1468 R1469	NRSA63J-472X NRSA63J-123X NRSA63J-153X NRSA63J-104X NRSA63J-224X NRSA63J-563X NRSA63J-224X NRSA63J-683X	MG R	$\begin{array}{cccc} 4.7 \& \Omega & 1/16 \& & J \\ 12 \& \Omega & 1/16 \& & J \\ 15 \& \Omega & 1/16 \& & J \\ 100 \& \Omega & 1/16 \& & J \\ 220 \& \Omega & 1/16 \& & J \\ 56 \& \Omega & 1/16 \& & J \\ 220 \& \Omega & 1/16 \& & J \\ 68 \& \Omega & 1/16 \& & J \\ \end{array}$
R1470 R1471 R1472 R1473 R1474 R1475 R1476-78 R1479	NRSA63J-223X NRSA63J-273X NRSA63J-682X NRSA63J-123X NRSA63J-563X NRSA63J-153X NRSA63J-123X NRSA63J-124X	MG R MG R MG R MG R MG R MG R MG R	22kΩ 1/16W J 27kΩ 1/16W J 6.8kΩ 1/16W J 12kΩ 1/16W J 56kΩ 1/16W J 15kΩ 1/16W J 12kΩ 1/16W J 12kΩ 1/16W J 150kΩ 1/16W J
R1480 R1481 R1482 R1483 R1484 R1485 R1486 R1487	NRSA63J-823X NRSA63J-472X NRSA63J-272X NRSA63J-472X NRSA63J-473X NRSA63J-123X NRSA63J-472X NRSA63J-183X	MG R MG R MG R MG R MG R MG R MG R	82kΩ 1/16W J 4.7kΩ 1/16W J 2.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 12kΩ 1/16W J 12kΩ 1/16W J 4.7kΩ 1/16W J 18kΩ 1/16W J
R1489 R1491 R1492 R1501 R1504 R1511 R1512	NRSA63J-333X NRSA63J-332X NRSA63J-562X NRSA63J-0R0X NRSA63J-102X NRSA63J-152X NRSA63J-332X NRSA63J-223X	MG R MG R MG R MG R MG R MG R MG R	33kΩ 1/16W J 3.3kΩ 1/16W J 5.6kΩ 1/16W J 0.0Ω 1/16W J 1kΩ 1/16W J 1.5kΩ 1/16W J 3.3kΩ 1/16W J 22kΩ 1/16W J

<u>∧</u> Symbol No.	Part No.	Part Name	Description
RESI	STOR		
R1522 R1551 R1552 R1553 R1554 R1555 R1556 R1557	NRS/63J-562X NRS/63J-100X NRS/63J-124X NRS/63J-683X NRS/63J-562X NRS/63J-333X NRS/63J-472X NRS/63J-562X	MG R MG R MG R MG R MG R MG R MG R	5.6kΩ 1/16W J 10Ω 1/16W J 120kΩ 1/16W J 68kΩ 1/16W J 5.6kΩ 1/16W J 33kΩ 1/16W J 4.7kΩ 1/16W J 5.6kΩ 1/16W J
R1558 R1559 R1560 R1561 R1562 R1563 R1564 R1566	NRSA63J-104X NRSA63J-154X NRSA63J-100X QRN143J-0R0X NRSA63J-683X NRSA63J-103X NRSA63J-223X NRSA63J-562X	MG R MG R MG R C R MG R MG R MG R	100kΩ 1/16W J 150kΩ 1/16W J 10Ω 1/16W J 0.0Ω 1/4W J 68kΩ 1/16W J 10kΩ 1/16W J 22kΩ 1/16W J 5.6kΩ 1/16W J
R1591 R1592 R1595 R1596 R1601 R1602 R1603 R1604	NRSÆ3J-561X NRSÆ3J-332X NRSÆ3J-222X NRSÆ3J-104X NRSÆ3J-273X NRSÆ3J-103X NRSÆ3J-273X NRSÆ3J-103X	MG R MG R MG R MG R MG R MG R MG R	560Ω 1/16W J 3.3kΩ 1/16W J 2.2kΩ 1/16W J 100kΩ 1/16W J 27kΩ 1/16W J 10kΩ 1/16W J 27kΩ 1/16W J 27kΩ 1/16W J 10kΩ 1/16W J
R1605 R1606 R1609 R1610 R1618 R1619 R1620 R1637	NRSA63J-473X NRSA63J-273X NRSA63J-104X NRSA63J-682X NRSA63J-333X NRSA63J-104X NRSA63J-562X QRK126J-2R2X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1639 R1642-43 R1644 R1645-46 R1649 R1650-51 R1654-55 R1664-65	NRSA63J-561X NRSA63J-681X NRSA63J-104X NRSA63J-0ROX QRK126J-2R2X NRSA63J-103X NRSA63J-0ROX NRSA63J-103X	MG R MG R MG R MG R C R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1666 R1667 R1668 R1669 R1670-71 R1672 R1673 R1675	NRSÆ3J-473X NRSÆ3J-183X NRSÆ3J-473X NRSÆ3J-183X NRSÆ3J-104X NRSÆ3J-223X NRSÆ3J-273X NRSÆ3J-103X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1677-78 R1679 R1680 R1684 R1687 R1701-02 R1703-04 R1705-08	NRSA63J-103X NRSA63J-223X NRSA63J-273X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-103X NRSA63J-102X NRSA63J-103X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 10 k \Omega & 1/16 W & J \\ 22 k \Omega & 1/16 W & J \\ 27 k \Omega & 1/16 W & J \\ 0.0 \Omega & 1/16 W & J \\ 0.0 \Omega & 1/16 W & J \\ 10 k \Omega & 1/16 W & J \\ 1k \Omega & 1/16 W & J \\ 10 k \Omega & 1/16 W & J \\ \end{array}$
R1711-12 R1714-15 R1720-22 R1772-76 R1951	NRSA63J-101X NRSA63J-102X NRSA63J-102X NRSA63J-221X QRK126J-220X	MG R MG R MG R MG R C R	100Ω 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 220Ω 1/16W J 220Ω 1/16W J
C1001 C1002	NCB31HK-222X QETN1HM-106Z	C CAP. E CAP.	2200pF 50V K 10 <sub>µ</sub> F 50V M

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C1004 C1005 C1006 C1007 C1009 C1010 C1101 C1102	NCB31CK-104X QETNICM-108Z NCB31HK-103X QETNIHM-106Z NCB31CK-104X QETNIHM-106Z NCB31CK-104X QETNIHM-106Z	C CAP. E CAP. C CAP. E CAP. E CAP. C CAP. C CAP. E CAP. E CAP.	$\begin{array}{ccccc} 0.1 \mu F & 16 V & K \\ 1000 \mu F & 16 V & M \\ 0.01 \mu F & 50 V & K \\ 10 \mu F & 50 V & M \\ 0.1 \mu F & 16 V & K \\ 10 \mu F & 50 V & M \\ 0.1 \mu F & 16 V & K \\ 10 \mu F & 50 V & M \\ \end{array}$
	C1103 C1104 C1105 C1106-07 C1108 C1111 C1116 C1117-18	NCB3LCK-104X QETN1CM-107Z QETN1HM-106Z NCB3LCK-104X NDC31HJ-680X NCB31HK-103X NCB31HK-472X NCB31HK-472X	C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 16V K 100µF 16V M 10µF 50V M 0.1µF 16V K 68pF 50V J 0.01µF 50V K 4700F 50V K 0.01µF 50V K
	C1119-20 C1121 C1122-23 C1124-25 C1126 C1127 C1128 C1129	NDC31HJ-2ROX NCB31HK-103X NDC31HJ-102X QETMLHM-106Z NCB31CK-104X QETMLHM-106Z NCB31CK-104X NCF31AZ-105X	C CAP. C CAP. C CAP. E CAP. E CAP. C CAP. C CAP. C CAP.	$\begin{array}{ccccc} 2.0 \text{pF} & 50 \text{V} & \text{J} \\ 0.01 \mu \text{F} & 50 \text{V} & \text{K} \\ 100 \text{QF} & 50 \text{V} & \text{M} \\ 10 \mu \text{F} & 50 \text{V} & \text{M} \\ 0.1 \mu \text{F} & 16 \text{V} & \text{K} \\ 10 \mu \text{F} & 50 \text{V} & \text{M} \\ 0.1 \mu \text{F} & 16 \text{V} & \text{K} \\ 1 \mu \text{F} & 10 \text{V} & \text{Z} \\ \end{array}$
	C1130 C1151-54 C1155-56 C1301 C1302-03 C1305-09 C1310 C1311	QETNLHM-106Z NCF31AZ-105X NDC31HJ-102X QETNLCM-107Z NCB31CK-104X NCB31CK-04X QETNLAM-228Z NCB31CK-683X	E CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	C1312 C1313-15 C1316-18 C1320 C1321-23 C1324 C1351 C140I	NDC31HJ-221X NCB31HK-223X NCB31HK-103X QETNDJM-228Z NCB31HK-223X NDC31HJ-820X QENC1EM-106Z NCB31CK-104X	C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. BP E CAP. C CAP.	220pF 50V J 0.022 µF 50V K 0.01µF 50V K 2200µF 6.3V M 0.022 µF 50V K 82pF 50V J 10µF 25V M 0.1µF 16V K
	C1402 C1403-04 C1453 C1454 C1455-56 C1457 C1471 C1472	QETNICM-107Z NCB31CK-104X NCB31HK-103X NCB31EK-333X NCB31CK-104X NCB31EK-333X NCB31CK-104X NCB31HK-103X	E CAP. C CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	C1473 C1474 C1475 C1491 C1501-02 C1551-52 C1553 C1554-55	NCB31CK-104X NCB31EK-333X NCB31CK-104X NCB31EK-473X NDC31HJ-150X NCF31CZ-224X QETN1EM-476Z NCF31CZ-224X	C CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	C1560 C1561 C1562 C1564 C1591 C1596 C1600 C1606-07	QETNICM-107Z NDC31HJ-561X QETNIHM-105Z NCB31CK-104X NDC31HJ-471X NCB31CK-104X QETNIHM-226Z QETNICM-227Z	E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. E CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	C1616	QETN1HM-105Z	E CAP.	1μF 50V M

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C1618 C1628 C1629 C1630 C1632 C1634 C1641-42 C1646-47	QETNLHM-105Z QETNLHM-107Z QETNLHM-106Z NCF21HZ-224X NCF21HZ-224X QETMLHM-228 NCF21HZ-224X NCB31HK-103X	E CAP. E CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	1µF 50V M 100µF 50V M 100µF 50V M 0.22µF 50V Z 0.22µF 50V Z 2200µF 50V M 0.22µF 50V Z 0.01µF 50V K
	C1648-49 C1673-74 C1675 C1676-77 C1678-79 C1680 C1681 C1682	QETMLVM-108 NCF31AZ-105X QETMLEM-476Z NDC31HJ-151X NDC31HJ-150X NCF31AZ-105X NCB31HK-332X NCB31EK-333X	E C.P C C.P C C.P C C.P C C.P C C.P C C.P	1000 µF 35V M 1µF 10V Z 47µF 25V M 1500F 50V J 15pF 50V J 1µF 10V Z 3300pF 50V K 0.033 µF 25V K
	C1683 C1684 C1685 C1686 C1687 C1688 C1689 C1695	QETNLEM-476Z NCB31HK-332X NCB31EK-333X NCF31AZ-105X QETNLEM-476Z NCB31CK-104X NRSA63J-0ROX	E CAP. C CAP. C CAP. E CAP. E CAP. C CAP. MG R	47μF 25V M 3300pF 50V K 0.033 μF 25V K 1μF 10V Z 10μF 50V M 47μF 25V M 0.1μF 16V K 0.0Ω 1/16W J
	C1698 C1699 C1701 C1702 C1951 C1952-53 C1954 C1955	NRS/63J-OROX NCB31HK-103X QETNLHM-106Z NCB31CK-563X QETNLCM-477Z NCB31CK-104X QETNLAM-477Z QETNLAM-227Z	MG R C CAP. E CAP. CHIP CAP. E CAP. E CAP. E CAP.	0.0Ω 1/16W J 0.01μF 50V K 10μF 50V M 0.056μF 16V K 470μF 16V M 0.1μF 16V K 470μF 10V M 220μF 10V M
	C1956	QETNLAM-107Z	E CAP.	100μF 10V M
	COIL	-		
	L1001 L1002-03 L1101 L1102 L1301-02 L1951	QQL244K-270Z QQL244K-100Z QRN143J-0R0X QQL244K-4R7Z NQL092K-1R5X QQL26AM-5R6Z	PEAKING COIL COIL C R COIL INDUCTOR CHOKE COIL	10 <sub>1</sub> H K 0.0 <sub>Ω</sub> 1/4d J 4.7μH K
	DIOD	E		
	D1317-18 D1319 D1320-21 D1471-74 D1475 D1521 D1591 D1592	MA111-X MA3036-X MA3056/M/-X MA111-X MA3240/M/-X MA111-X MA111-X MA3051/M/-X	SI. DIODE ZENER DIODE ZENER DIODE SI. DIODE	
	D1593 D1602 D1610-11 D1614-15 D1617 D1619-20 D1771-74 D1951	MA111-X MA111-X MA111-X MA111-X MA111-X MA3307L/-X MA3056/M/-X 15R35-400A-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE	
_	D1981-82	MA111-X	SI.DIODE	
	TRAN	SISTOF	₹	
	Q1102 Q1301 Q1471-72 Q1561	2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	

7	Symbol No.	Part No.	Part Name	Des	cription
		ISISTO			
	01562 01591	2SA1037AK/QR/-X 2SA1037AK/QR/-X	SI.TRANSISTOR SI.TRANSISTOR		
	01592 01601-02	2SC2412K/QR/-X 2SA1037AK/QR/-X	SI.TRANSISTOR SI.TRANSISTOR		
	01604-05 01606	DTC124EKA-X 2SC2412K/QR/-X	DIGI.TRANSISTOR SI.TRANSISTOR		
	Q1607 Q1615	DTA124EKA-X 2SA1037AK/QR/-X	DIGI.TRANSISTOR SI.TRANSISTOR		
	Q1616-17	DTC323TK-X	DIGI.TRANSISTOR		
	IC				
	IC1101 IC1301	MSP3415DQGB3GHX SDA9380	I . C (MONO-ANA) I . C (M)		
	IC1402 IC1471	BA10324AF-XE BA10358F-XE	I.C(MONO-ANA) I.C(M)		
	ÎČÎ55Î IC1601	LA6515 TA8246AH	Ī.Č(MÓNO-ANA) I.C(HYBRID)		
	IC1662 IC1663	BA4558F-X NJM2150AM-X	I.C (MONO-ANA) I.C (MONO-ANA)		
	IC1701	JLC1562BF-X	I.C(DIGI-MOS)		
	IC1951 IC1952	BAO9T BAO8T	I . C (MONO-ANA) I . C (MONO-ANA)		
	OTHE	RS			
	CN1013 J1001	QGA2501C1-10 ONNO296-001	W TO B CONNE PIN JACK		
	K1001 K1101-02	NQR0389-003X NOR0389-003X	FERRITE BEADS FERRITE BEADS		
	K1301 K1601-02	NQR0413-003X CE42681-001Y	BEADS CORE BEADS CORE		
	LC1102 LC1301-03	NQR0431-001X NQR0431-001X	EMI FILTER EMI FILTER		
	TU1001	0AU0277-001	TUNER		
	X1101 X1501	CE42546-001Z 0AX0549-001Z	CRYSTAL CRYSTAL		
	Ŷ1612-13	NCF21CZ-105X	C CAP.	$1 \mu F$	16V Z

# AV28X25EUS / AV28X25EIGY / AV28X25EKGY

	■POWER & DEF. P.W. BOARD ASS'Y					
Δ	Symbol No.	Part No.	(SMF-24	103A-U2) Description		
_	RESI	STOR		<u> </u>		
	R2401-02 R2403 R2404 R2405 R2406 R2407-08 R2409 R2410	QRE141J-562Y QRE141J-222Y QRX01GJ-1R0 QRL 09J-151 QRE141J-222Y QRX01GJ-1R5 QRE141J-823Y QRE141J-103Y	C R C R MF R OM R C R MF R C R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
	R2421 R2422 R2461 R2462 R2463 R2464 R2468 R2469	QRE141J-103Y QRE141J-274Y QRGQ29J-820 QRE141J-473Y QRA14CF-9101Y QRX01GJ-2R7 QRE141J-102Y QRE141J-272Y	C R C R OM R C R MF R MF R C R C R	$\begin{array}{ccccc} 10 k_{\Omega} & 1/4 \text{W} & \text{J} \\ 270 \text{K}\Omega & 1/4 \text{W} & \text{J} \\ 82 & \Omega & 2 \text{W} & \text{J} \\ 47 k_{\Omega} & 1/4 \text{W} & \text{J} \\ 9.1 \text{K}\Omega & 1/4 \text{W} & \text{F} \\ 2.7 \Omega & 1 \text{W} & \text{J} \\ 1 k_{\Omega} & 1/4 \text{W} & \text{J} \\ 2.7 \text{K}\Omega & 1/4 \text{W} & \text{J} \end{array}$		
	R2471 R2472 R2473 R2474 R2475 R2476 R2477 R2478	QRE141J-391Y QRA14CF-1002Y QRE141J-473Y QRE141J-103Y QRE141J-102Y QRE141J-102Y QRE141J-563Y QRE141J-333Y	C R MF R C R C R C R C R C R	390Ω 1/4W J 10kΩ 1/4W F 47kΩ 1/4W J 10kΩ 1/4W J 1kΩ 1/4W J 1kΩ 1/4W J 56kΩ 1/4W J 33kΩ 1/4W J		
	R2501 R2502 R2503 R2504 R2505 R2506 R2521 R2522	QRE141J-471Y QRE141J-123Y QRE121J-152Y QRL 089J-272 QRL 089J-332 QRE121J-5R6Y QRE121J-471Y QRE141J-223Y	C R C R C R OM R C R C R C R	470Ω 1/4W J 12kΩ 1/4W J 1.5kΩ 1/2W J 2.7kΩ 3W J 3.3kΩ 3W J 5.6Ω 1/2W J 470Ω 1/2W J 22kΩ 1/4W J		
<u>A</u>	R2523 R2524 R2541 R2542 R2543 R2551 R2552 R2581	QRE141J-103Y QRC121K-152Z QRE141J-182Y QRE141J-222Y QRE121J-272Y QR2922-R47 QR2922-R47 QRF154K-4R7	C R COMP.R C R C R F R F R UNF R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
	R2582 R2583 R2584 R2585 R2586 R2587 R2588 R2591	QRE141J-681Y QRE121J-682Y QRE141J-183Y QRE141J-222Y QRA14CF-7501Y QRA14CF-2101Y QRE141J-103Y QR29017-4R7	C R C R C R MF R MF R C R F R	680Ω 1/4W J 6.8KΩ 1/2W J 18KΩ 1/4W J 2.2kΩ 1/4W J 7.5kΩ 1/4W F 2.1kΩ 1/4W F 10kΩ 1/4W J 4.7 Ω 1/4W J		
_	R2901 R2902 R2903 R2904 R2905-06 R2908-09 R2910 R2911	QRE121J-331Y QRF054K-3R3 QRF104K-3R9 QRL089J-683 QRE121J-474Y QRL089J-823 QR2917-100 QRE121J-152Y	C R UNF R UNF R OM R C R OM R F R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
	R2914 R2915 R2916 R2931 R2932 R2933 R2944 R2945	QRMOS9J-R10 QRE121J-681Y QRE121J-332Y QRE141J-1R0Y QRE141J-1R5Y QRE141J-1R8Y QRE141J-103Y QRE141J-563Y	MP R C R C R C R C R C R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		

Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		_
	R2946 R2951 R2952 R2953 R2954 R2964 R2981 R2982	QRE141J-103Y QRE121J-102Y QRL039J-223 QRE141J-474Y QRE141J-103Y QRT039J-1R5 QRE141J-153Y QRE141J-102Y	C R C R OM R C R C R MF R C R	$\begin{array}{ccccc} 10 \text{K}\Omega & 1/4\text{W} & \text{J} \\ 1 \text{K}\Omega & 1/2\text{W} & \text{J} \\ 22 \text{K}\Omega & 3\text{W} & \text{J} \\ 470 \text{K}\Omega & 1/4\text{W} & \text{J} \\ 10 \text{K}\Omega & 1/4\text{W} & \text{J} \\ 1.5 \Omega & 3\text{W} & \text{J} \\ 15 \text{K}\Omega & 1/4\text{W} & \text{J} \\ 1 \text{K}\Omega & 1/4\text{W} & \text{J} \\ \end{array}$
Δ	R2991	QRZ9046-825Z	C R	8.2MΩ 1/2W K
	CAPA	CITOR		
	C2404 C2405 C2406 C2408 C2409-10 C2411 C2414 C2421	QCZ0120-104Z QDC31HJ-820Z QETMLVM-108 QETMLVM-337Z QFV71HJ-474Z QFLC2AJ-104Z QCB31HK-682Z QETMLHM-105Z	C CAP. C CAP. E CAP. E CAP. MF CAP. M CAP. C CAP. E CAP.	$\begin{array}{cccc} 0.1\mu F & 25V & Z \\ 82pF & 50V & J \\ 1000 \ \mu F & 35V & M \\ 330 \ \mu F & 35V & M \\ 0.47 \ \mu F & 50V & J \\ 0.1\mu F & 100V & J \\ 6800pF & 50V & K \\ 1\mu F & 50V & M \\ \end{array}$
	C2461 C2462-63 C2464 C2465 C2466 C2467 C2468 C2470	QEZQ414-226 QFM72DJ-152Z QCZQ12O-104Z QETMLHM-106Z QFP31HJ-27ZZ QFLC1HJ-102Z QETMLEM-476Z QCS31HJ-470Z	E CAP. M CAP. C CAP. E CAP. PP CAP. M CAP. C CAP.	22µF 50V M 1500pF 200V J 0.1µF 25V Z 10µF 50V M 2700pF 50V J 1000pF 50V J 47µF 25V M 47pF 50V J
Δ Δ	C2471 C2501 C2502 C2503 C2521 C2522 C2523 C2524	QFLC1HJ-103Z QCB32HK-331Z QFM72DK-108 QFV71HJ-224Z QFZ0122-112 QFZ0022-112 QFM72DK-393 QFP32JJ-223	M CAP. C CAP. M CAP. MF CAP. MPP CAP. MPP CAP. M CAP. PP CAP.	0.01 <sub>μ</sub> F 50V J 330¢F 500V K 0.01 <sub>μ</sub> F 200V K 0.22 <sub>μ</sub> F 50V J 1100¢F1.8kVH±3% 0.011 <sub>μ</sub> F1.9kVH±3% 0.039μF 200V K 0.022μF 630V J
	C2526 C2527 C2529 C2530 C2531 C2532 C2541 C2551	QFZ0197-184 QFZ0197-124 QFZ0197-154 QCB32HK-561Z QCB32HK-534 QETM2CM-227 QENC1HM-105Z QCB32HK-152Z	MPP CAP. MPP CAP. MPP CAP. C CAP. MPP CAP. E CAP. E CAP. C CAP.	0.18µF 250V J 0.12µF 250V J 0.15µF 250V J 560PF 500V K 0.53µF 250V J 220µF 160V M 1µF 50V M 1500PF 500V K
	C2552 C2553 C2554 C2555 C2556 C2558 C2559 C2581	QETNICM-108Z QCB32HK-152Z QETNICM-108Z QCB32HK-102Z QETNICM-106Z QETNICM-477Z QEHRICM-227Z QETNICM-107Z	E CAP. C CAP. E CAP.	1000µF 16V M 1500pF 500V K 1000µF 16V M 1000pF 500V K 10µF 250V M 470µF 16V M 220µF 16V M 100µF 16V M
Δ Δ Δ Δ	C2582 C2584 C2584 C2901 C2902 C2903 C2904 C2905	QETNLEM-476Z QETN2AM-106Z QETNLAM-227Z QFZ9072-473 QFZ9072-104 QFZ9072-473 QCZ9054-472 QCZ9054-472	E CAP. E CAP. E CAP. MM.CAP MF.CAP. C CAP. C CAP.	47μF 25V M 10μF 100V M 220μF 10V M 0.047μFAC275V K 0.1μFAC275V K 0.047μFAC275V K 4700pFAC250V Z 4700pFAC250V Z
Δ	C2906 C2907 C2908 C2909 C2910	QCZ9054-472 QEZ0199-227 QCB32HK-103 QCZ0340-391 QETNLHM-476Z	C CAP. E CAP. C CAP. C CAP. E CAP.	$\begin{array}{cccc} 4700 p FAC250V & Z \\ 220 \mu F & 400V & M \\ 0.01 \mu F & 500V & K \\ 390 p F & 2kV & K \\ 47 \mu F & 50V & M \end{array}$

# AV28X25EUS / AV28X25EIGY AV28X25EKGY

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		_
<u>Å</u>	C2911 C2912 C2914 C2915 C2916 C2931 C2932 C2933	QCB31HK-102Z QCZ0340-561 QCB31HK-471Z QFLC1HJ-104Z QCB32HK-152Z QCZ9054-472 QCZ9054-472 QCZ9054-472	C CAP. C CAP. C CAP. M CAP. C CAP. C CAP. C CAP. C CAP.	1000pF 50V K 560pF 2kV K 470pF 50V K 0.1pF 50V J 1500pF 500V K 4700pFAC250V Z 4700pFAC250V Z
	C2934 C2941 C2942 C2951 C2952 C2955 C2956 C2957	QETM2GM-226 QTMNLCM-477Z QETNLAM-337Z QEZQC03-227 QETNLCM-108Z QETMLVM-228 QETNLAM-108Z QETNLAM-228Z	E CAP.	22µF 400V M 470µF 16V M 330µF 10V M 220µF 160V M 1000µF 16V M 2200µF 35V M 1000µF 10V M 2200µF 10V M
<u>A</u>	C2959 C2960 C2972-75 C2991 C2993	QFV71HJ-684Z QCZ0325-821 QETNIAM-477Z QCZ9079-222 QCZ9079-471	MF CAP. C CAP. E CAP. C CAP. C CAP.	0.68µF 50V J 820PF 2KV K 470µF 10V M 2200µFAC250V M 470µFAC250V K
	TRAN	ISFORME	R	
<u>A</u>	T2501 T2551 T2901	QQR1111-001 QQH0126-001 QQS0156-001	DRIVE TRANSF H.V.TRANSF. SWITCH.TRANSF.	
	COIL	-		
	L2461 L2462 L2521 L2522 L2551 L2552 L2901-02 L2903	QQR1195-001 QQL2028-272 QQL2031-180 QQR1191-002 QQL2026-540 QQL26AK-220Z QQL401K-100Z QQR1200-001	CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE COIL CHOKE COIL CHOKE COIL	2. <b>2</b> µH K
	L2951 L2959-60 L2961	QQLZ026-460 QQL26AK-220Z QQL26AM-4R7Z	HEATER CHOKE COIL CHOKE COIL	22µН К
	DIOD	ÞΕ		
	D2402 D2421 D2461 D2462 D2463 D2501 D2521 D2522	1SR35-400A-T2 1SS133-T2 RGP10J-5025-T3 1SS133-T2 1SS133-T2 1SS81-T5 V11CA-C1 FMV-3FU-F1	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
	D2523 D2541 D2542 D2551 D2552 D2553 D2582 D2588	MTZ.J228-T2 RGP10J-5025-T3 MTZ.J3.9B-T2 RGP10J-5025-T3 RGP10J-5025-T3 RH15-T3 MTZ.J7.5B-T2 MTZ.J7.5S-T2	ZENER DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE	
<u>A</u>	D2584 D2901 D2902 D2904 D2905 D2906 D2907 D2908	RGP10J-5025-T3 D35&0 RG1C-LFA1 EU2A-T2 15S133-T2 MT7J27B-T2 1SS133-T2 1SS133-T2	SI.DIODE BRIGGE DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE	
Δ	D2910 D2911 D2931 D2945 D2951	MTZJ15B-T2 1SS133-T2 S1WB/A/60-4101 1SS133-T2 RU4AM-LFT2	ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	

Δ	Symbol No.	Part No.	Part Name	Description
	DIOD	ÞΕ		
	D2952 D2953 D2955 D2956 D2958 D2959 D2961 D2981	RGP10J-5025-T3 RU4M1-LFT2 RU3YX-LFC4 RGP10J-5025-T3 MT2J3B-T2 RU3YX-LFC4 15S133-T2 15S133-T2	SI.DIODE	
	D2984 D2985	155133-T2 155133-T2	SI.DIODE SI.DIODE	
-	TRAN	ISISTOF	₹	
₫	Q2421 Q2422 Q2461 Q2462-63 Q2464 Q2501 Q2521 Q2581	DTC124ESA-T 2SC1740S/0R/-T 2SK2459N-F54 2SC1740S/0R/-T 2SA933AS/0R/-T BSN304-T 2SC5552-RL 2SA1208/ST/Z1-T	DIGI.TRANSISTOR SI.TRANSISTOR F.E.T. SI.TRANSISTOR SI.TRANSISTOR F.E.T. SI.TRANSISTOR FI.E.T. SI.TRANSISTOR SI.TRANSISTOR	H.OUT
	02582 02583 02941-42	DTC144ESA-T 2SC1740S/QR/-T 2SC1740S/QR/-T	DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
	IC			
Δ	IC2401 IC2461 IC2551 IC2901 IC2902 IC2951 IC2954 IC2955	AN5523 BA10393 BA12T STR-F6667B/F7 QAL0425-001 SE140N BA05T NJM2396F33	I.C (M) I.C (MONO-ANA) I.C (MONO-ANA) I.C (HYBRID) P. W.B. MODULE I.C (HYBRID) I.C (MONO-ANA) I.C (MONO-ANA)	
	OTHE	RS		
<u>A</u>	CN2004-06 CN2014 CP2951-53 CP2955 K2401 K2522-24 K2901 LF2901	QGB1506M1-16 QGA2501C5-06Z ICP-W75-Y ICP-W75-Y OQR0621-002Z CE41832-001 QQR0679-001 QQR1095-001	CONNECTOR EH POST HEADER I.C.PROTECT I.C.PROTECT BEADS CORE LEAD CORE FERRITE BEADS LINE FILTER	
<u>^</u>	PC2901 RY2931 TH2901	PC123FY2 QSK0099-001 QAD0133-9R0	I.C(PH.COUPLER) RELAY P.THEMISTOR	

# ■CRT SOCKET P.W. BOARD ASS'Y (SMF-3403A-U2)

				(SMF-3403A-U2)
Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R3101 R3102 R3103 R3104 R3105 R3106 R3107 R3109	NRS.463J-223X NRS.463J-681X NRS.463J-101X NRS.463J-822X NRS.463J-102X NRS.463J-221X NRS.463J-561X NRS.463J-153X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 22 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 680\Omega & 1/16\text{W} & \text{J} \\ 100\Omega & 1/16\text{W} & \text{J} \\ 8.2 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 1\text{K}\Omega & 1/16\text{W} & \text{J} \\ 220\Omega & 1/16\text{W} & \text{J} \\ 560\Omega & 1/16\text{W} & \text{J} \\ 15\text{K}\Omega & 1/16\text{W} & \text{J} \\ \end{array}$
	R3110 R3111 R3112 R3113-14 R3115 R3116 R3117 R3122	NRS.463J-222X NRS.463J-471X NRS.463J-272X NRS.463J-152X NRS.463J-390X ORGOI.G.J-101 NRS.463J-331X NRS.463J-122X	MG R MG R MG R MG R MG R OM R MG R	$\begin{array}{ccccc} 2.2 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 470_{\Omega} & 1/16 \text{W} & \text{J} \\ 2.7 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 1.5 k_{\Omega} & 1/16 \text{W} & \text{J} \\ 39 \Omega & 1/16 \text{W} & \text{J} \\ 100 \Omega & \text{IW} & \text{J} \\ 330_{\Omega} & 1/16 \text{W} & \text{J} \\ 1.2 k_{\Omega} & 1/16 \text{W} & \text{J} \end{array}$
	R3123 R3124 R3125 R3126 R3127 R3128 R3129-30 R3131	QRE121J-563Y NRSA63J-470X QRE121J-563Y NRSA63J-470X NRSA63J-122X NRSA63J-390X QRE121J-2R7Y NRSA63J-390X	C R MG R C R MG R MG R MG R C R MG R	$\begin{array}{ccccc} 56 \text{k}_{\Omega} & 1/2 \text{M} & \text{J} \\ 47 \Omega & 1/16 \text{W} & \text{J} \\ 56 \text{k}_{\Omega} & 1/2 \text{W} & \text{J} \\ 47 \Omega & 1/16 \text{W} & \text{J} \\ 1.2 \text{k}_{\Omega} & 1/16 \text{W} & \text{J} \\ 39 \Omega & 1/16 \text{W} & \text{J} \\ 2.7 \Omega & 1/2 \text{W} & \text{J} \\ 39 \Omega & 1/16 \text{W} & \text{J} \\ \end{array}$
Δ	R3132 R3133 R3134 R3204-06 R3211 R3223-25 R3227 R3228	NRS.463 J - 121X QRL 029 J - 681 QR 29021 - 561 NRS.463 J - 272X NRS.463 J - 154X NRS.463 J - 272X NRS.463 J - 103X NRS.463 J - 272X	MG R OM R F R MG R MG R MG R MG R	120Ω 1/16W J 680Ω 2W J 560Ω□ 1W J 2.7kΩ 1/16W J 150kΩ 1/16W J 2.7kΩ 1/16W J 10kΩ 1/16W J 2.7kΩ 1/16W J
	R3229-31 R3232-34 R3235-37 R3239 R3241 R3242 R3244 R3245-47	QRL029J-104-F NRS/63J-332X QRC121K-152Z QRZ0107-474Z QRZ0107-105Z NRS/63J-103X NRS/63J-102X NRS/63J-562X	OM R MG R COMP.R C R C R MG R MG R	$\begin{array}{cccc} 100 \text{K}\Omega & 2\text{W} & \text{J} \\ 3.3 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 1.5 \text{K}\Omega & 1/2\text{W} & \text{K} \\ 470 \text{K}\Omega & 1/2\text{W} & \text{K} \\ 1.0 \text{M}\Omega & 1/2\text{W} & \text{K} \\ 10 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 16 \text{K}\Omega & 1/16\text{W} & \text{J} \\ 5.6 \text{K}\Omega & 1/16\text{W} & \text{J} \\ \end{array}$
	R3301-02 R3303-04 R3305 R3306 R3310	QRE121J-474Y NRSA63J-223X NRSA63J-562X NRSA63J-392X NRSA63J-0ROX	C R MG R MG R MG R MG R	470kΩ 1/2W J 22kΩ 1/16W J 5.6kΩ 1/16W J 3.9kΩ 1/16W J 0.0Ω 1/16W J
	CAPA	CITOR		
	C3102 C3103 C3104 C3106 C3107 C3110 C3111 C3113	NDC31HJ-6R0X NDC31HJ-390X QCB31HK-103Z QETNLHM-335Z QETNLCM-107Z QETN2CM-106Z QCB32HK-472Z QETN2CM-106Z	C CAP. C CAP. E CAP. E CAP. E CAP. C CAP. E CAP. E CAP. C CAP.	6pF 50V J 39pF 50V J 0.01μF 50V K 3.3μF 50V M 100μF 16V M 10μF 160V M 4700μF 500V K 10μF 160V M
	C3114 C3116-17 C3118 C3120-21 C3201-03 C3204-06 C3207-09 C3210-12	QCB32HK-472Z QETMLAM-107Z QETMLAM-337Z NDC31HJ-221X NDC31HJ-100X NCF31CZ-104X QETMLEM-476Z QFKGZEK-104Z	C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. MM CAP.	$\begin{array}{ccccc} 4700 \text{F} & 500 \text{V} & \text{K} \\ 100 \mu \text{F} & 10 \text{V} & \text{M} \\ 330 \mu \text{F} & 10 \text{V} & \text{M} \\ 220 \mu \text{F} & 50 \text{V} & \text{J} \\ 100 \mu \text{F} & 50 \text{V} & \text{J} \\ 0.1 \mu \text{F} & 16 \text{V} & \text{Z} \\ 47 \mu \text{F} & 25 \text{V} & \text{M} \\ 0.1 \mu \text{F} & 250 \text{V} & \text{K} \end{array}$
	C3213-15 C3216 C3218 C3219	NDC31HJ-181X QETNLCM-107Z QETM2EM-336 QFZ0097-223	C CAP. E CAP. E CAP. MM CAP.	$\begin{array}{cccc} 180 pF & 50V & J \\ 100 \mu F & 16V & M \\ 33 \mu F & 250V & M \\ 0.022 \mu F & 1250V & K \end{array}$

A	Symbol No.	Part No.	Part Name	Description
	CAPA	ACITOR		
	C3221 C3302	QETN2EM-106Z QETN1HM-476Z	E CAP. E CAP.	10μF 250V M 47μF 50V M
	COIL	-		
	L3101 L3204	QQL244K-5R6Z QQL26AJ-102Z	COIL	5.6μΗ K 1mH J
	DIOE	E		
	D3101-02 D3103 D3104 D3204-06 D3208-10 D3211 D3301 D3303	MA111-X RH15-T3 RH15-T3 EU01N-T2 1SR124-400A-T2 MA3062/M/-X MA111-X	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE ZENER DIODE SI. DIODE SI. DIODE	
	TRAN	IS I STO	₹	
	Q3101 Q3102 Q3103 Q3104 Q3105 Q3108 Q3109 Q3301	25C2412K/QR/-X 25A1037AK/QR/-X 25C1906-T 25C2412K/QR/-X 25C1627A/QY/-T 25A1837 25C4793 25A1037AK/QR/-X	SI. TRANSISTOR	
_	IC			
	IC3201-03	TDA6111Q	I.C(MONO-ANA)	
	ОТНЕ	RS		
Δ	K3101 K3103-04 K3105 SG3201-03 SK3001 W3003 W3022	CE41492-001Z CE41492-001Z QQRG621-002Z QAF0056-501Z QNZ0464-001 QQR0679-001 QQR0679-001	CHOKE COIL CHOKE COIL BEADS CORE VARISTOR C.R.T. SOCKET FERRITE BEADS FERRITE BEADS	
	ISIDEC		W. BOARD AS	
	ODLO	ONTROL P.V		
7	Symbol No.	Part No.		SS'Y F-8103A-U2) Description
7	Symbol No.		(SM	F-8103A-U2)
7	Symbol No.	Part No.	(SM	F-8103A-U2)
7	Symbol No.  RESI  R8001-02  R8010  R8012-13	Part No.  STOR  QRE121J-271Y  NRS/63J-103X  NRS/63J-103X  NRS/63J-102X	Part Name  C R MG R MG R	F-8103A-U2) Description  2700 1/2W J 10K0 1/16W J 10K0 1/16W J
7	Symbol No.  RES I  R8001-02 R8012-13 R8021-22	Part No.  STOR  QRE121J-271Y NRS/63J-103X NRS/63J-103X NRS/63J-102X	Part Name  C R MG R MG R	F-8103A-U2) Description  270Ω 1/2W J 10KΩ 1/16W J 10KΩ 1/16W J
7	Symbol No.  RESI  R8001-02  R8010-13  R8021-22  CAPA  C8001-02  C8008  C8010-11	Part No.  STOR  QRE121J-271Y  NRSA63J-103X  NRSA63J-102X  CITOR  NCB31HK-103X  NDC31HJ-680X  NCB31HK-472X  NCB31CK-104X	C R MG R MG R MG R C CAP. C CAP. C CAP.	F-8103A-U2) Description  270Ω 1/2W J 10KΩ 1/16W J 10KΩ 1/16W J 1kΩ 1/16W J 0.01μF 50V K 68pF 50V J 4700pF 50V K
<u> </u>	Symbol No.  RESI  R8001-02  R8012-13  R8021-22  CAPA  C8001-02  C8008  C8010-11  C8021	Part No.  STOR  QRE121J-271Y  NRSA63J-103X  NRSA63J-102X  CITOR  NCB31HK-103X  NDC31HJ-680X  NCB31HK-472X  NCB31CK-104X	C R MG R MG R MG R C CAP. C CAP. C CAP.	F-8103A-U2) Description  270Ω 1/2W J 10KΩ 1/16W J 10KΩ 1/16W J 1kΩ 1/16W J 0.01μF 50V K 68pF 50V J 470φF 50V K
<u> </u>	Symbol No.  RESI  R8001-02  R8010-13  R8021-22  CAPA  C8001-02  C8008  C8010-11  COIL  L8001  L8002-03  L8002-11	Part No.  C S T OR  QRE121J-271Y NRS/63J-103X NRS/63J-103X NRS/63J-102X  C I T O R  NCB3LHK-103X NDC31HJ-680X NCB3LHK-472X NCB3LK-472X NCB3LCK-104X  -  QQR0716-0017 QQL244K-2707 QQR0716-0017	C R MG R MG R MG R C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	F-8103A-U2) Description  270Ω 1/2W J 10KΩ 1/16W J 10KΩ 1/16W J 10KΩ 1/16W J 10KΩ 1/16W J 40KΩ 1/16W J 470QF 50V K 68pF 50V J 470QF 50V K 0.1μF 16V K

### ■FRONT CONTROL P.W. BOARD ASS'Y

_			(SMF	8403A-U2)
Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		_
	R8005 R8008 R8035 R8039	NRSA63J-221X NRSA63J-102X QRE121J-151Y NRSA63J-331X	MG R MG R C R MG R	$\begin{array}{cccc} 220_{\Omega} & 1/16\text{W} & \text{J} \\ 1\text{k}_{\Omega} & 1/16\text{W} & \text{J} \\ 150_{\Omega} & 1/2\text{W} & \text{J} \\ 330_{\Omega} & 1/16\text{W} & \text{J} \end{array}$
	CAPA	CITOR		
₾	C8004 C8019 C8022 C8901	NCB31CK-104X QETNLCM-107Z QETNLEM-476Z QFZ9072-474	C CAP. E CAP. E CAP. MF CAP.	0.1 <sub>µ</sub> F 16V K 100 <sub>µ</sub> F 16V M 47 <sub>µ</sub> F 25V M 0.47µFAC275V K
	DIOD	ÞΕ		
	D8010 D8011 D8014 D8018	SPR-39MVWF MA111-X MA3068/M/-X MA3033-X	L.E.D. SI.DIODE ZENER DIODE ZENER DIODE	
	TRAN	ISISTOF	₹	
	Q8002 Q8003-04	DTC124EKA-X DTA124EKA-X	DIGI.TRANSISTOR DIGI.TRANSISTOR	
	IC			
	IC8001	GP1U281Q	IFR DETECT UNIT	
	ОТНЕ	RS		
<u>^</u>	F8901 LF8901 S8901	LC30849-001A-H CEMG002-001Z QMF51D2-3R15J1 QQR1095-001 QSW0824-001	L.E.D.HOLDER FUSE CLIP FUSE LINE FILTER PUSH SWITCH	3.15A MAIN POWER

### ■MICOM P.W. BOARD ASS'Y (SMF0M401A-U2)

Refer to PARTS LIST in page 46 for this P.W. board.

## ■ AV SW P.W. BOARD ASS'Y (SMF0S402A-U2)

Refer to PARTS LIST in page 47 for this P.W. board.

## ■100Hz P.W. BOARD ASS'Y (SMF0Z404A-U2)

Refer to PARTS LIST in page 48 for this P.W. board.

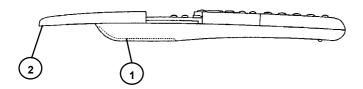
# **REMOTE CONTROL UNIT PARTS LIST**

AV32X25	EUS / AV32X2	50EUS (RM-C5	4H-1C)	
⚠ Ref.No.	Part No.	Part Name	Description	
1 2	2 AA 03 0 73 3 2 AA 03 0 73 2	BATTERY COVER SLIDE COVER		

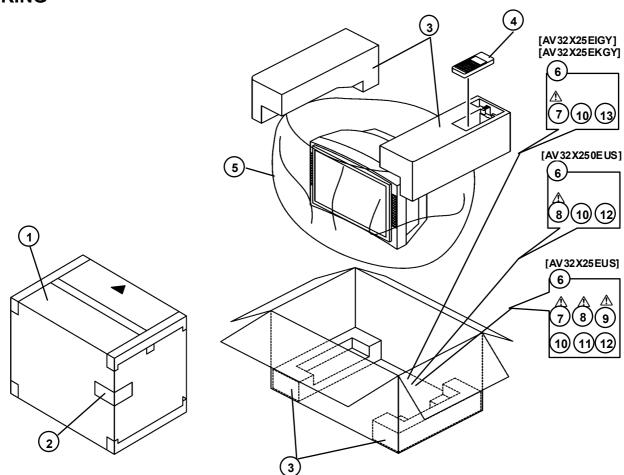
AV32X25EIGY / AV32X25EKGY (RM-C55H-1C)				
⚠ Ref.No.	Part No.	Part Name	Description	
1 2	2 AA 03 0 73 3 2 AA 03 0 74 0	BATTERY COVER SLIDE COVER		

AV28X25	EUS (RM-C5	54H-1C)		
<u>∧</u> Ref.No.	Part No.	Part Name	Description	
1 2	2 AA 03 0 73 3 2 AA 03 0 73 2	BATTERY COVER SLIDE COVER		

AV28X25	EIGY / AV28X2	SEKGY (RM-C	55H-1C)	
⚠ Ref.No.	Part No.	Part Name	Description	
1 2	2 AA 03 0 73 3 2 AA 03 0 74 0	BATTERY COVER SLIDE COVER		



# **PACKING**

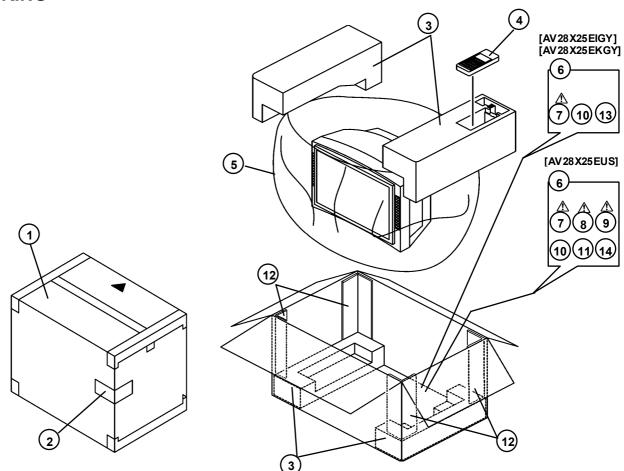


# **PACKING PARTS LIST**

AV32X25EUS / AV32X250EUS				
⚠ Ref.No.	Part No.	Part Name	Description	
1 2 2 3 4 5 6	A EM 10 0 2 - 07 9 - E A EM 10 64 - 01 7 - U A EM 10 64 - 02 0 - U L C 1 13 7 3 - 00 2 A - U R M - C 5 4 H - 1C A EM 10 4 7 - A0 2 - E A EM 30 2 1 - 00 2 A - E L C T 11 84 - 00 1 A - U	PACKING CASE EURO LABEL EURO LABEL CUSHION ASSY REMOCON UNIT POLY BAG POLY BAG INST BOOK	[AV32X25EUS] [AV32X250EUS] 4pcs in 1set [AV32X25EUS]	
*** 8 9 10 11 12	LCT1185-001A-U LCT1186-001A-U BT-54013-1E AEM1059-002A-E 2832X25EU-HSAE	INST BOOK INST BOOK WARRANTY CARD X-RAY CARD S.DIAGRAM	[AV32X25EUS] [AV32X25EUS] [ITALY EDITION]	

AV32X25EIGY / AV32X25EKGY				
<u>∧</u> Ref.No.	Part No.	Part Name	Description	
1 2 2 3 4 5 6 7	AEM1002-079-E AEM1064-019-U AEM1064-018-U LC11373-002A-U RM-C55H-1C AEM1047-A02-E AEM3021-002A-E LCT1187-001A-U	PACKING CASE EURO LABEL EURO LABEL CUSHION ASSY REMOCON UNIT POLY BAG POLY BAG INST BOOK	[AV32X25EIGY] [AV32X25EKGY] 4pcs in 1set	
10 13	BT-54013-1E AEM3148-001-E	WARRANTY CARD REG SHEET	[ AV 32 X2 5 EK G Y ]	

# **PACKING**



# **PACKING PARTS LIST**

AV28X25EUS				
⚠ Ref.No.	Part No.	Part Name	Description	
1 2 3 4 5 6 7 Å 8	AEM1002-A76-E AEM1064-021-U LC11318-002A-U RM-C54H-1C AEM1047-A02-E AEM3021-003A-E LCT1184-001A-U LCT1185-001A-U	PACKING CASE EURO LABEL CUSHION ASSY REMOCON UNIT POLY BAG POLY BAGS INST BOOK INST BOOK	4pcs in 1set	
↑ 9 10 11 12 14	L CT 1186-001A-U BT-54013-1E AEM1057-002A-E AEM3119-003A-E 2832X25EU-HSAE	INST BOOK WARRANTY CARD X-RAY CARD CORNER POST S.DIAGRAM	4pcs in 1set [ITALY EDITION]	

AV28X25EIGY / AV28X25EKGY				
⚠ Ref.No.	Part No.	Part Name	Description	
1 2 2 3 4 5 6 7	A EM 10 0 2 - A7 6 - E A EM 10 64 - 02 3 - U A EM 10 64 - 02 2 - U L C 1 13 18 - 00 2 A - U RM - C5 5 H - 1C A EM 10 4 7 - A0 2 - E A EM 30 2 1 - 00 2 A - E L C T 11 8 7 - 00 1 A - U	PACKING CASE EURO LABEL EURO LABEL CUSHION ASSY REMOCON UNIT POLY BAG INST BOOK	[AV28X25EIGY] [AV28X25EKGY] 4pcs in 1set	
10 12 13	BT-54013-1E AEM3119-003A-E AEM3148-001-E	WARRANTY CARD CORNER POST REG SHEET	4pcs in 1set [AV28X25EKGY]	



VICTOR COMPANY OF JAPAN, LIMITED
HOME AV NETWORK BU SINESS UNIT 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama, Kanagawa-prefecture, 221-8528, Japan

# **JVC**

# SCHEMATIC DIAGRAMS

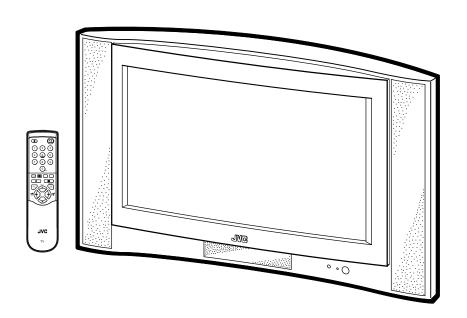
# **COLOUR TELEVISION**

# AV32X25EUS / AV32X250EUS AV32X25EIGY / AV32X25EKGY AV28X25EUS / AV28X25EIGY AV28X25EKGY

BASIC CHASSIS

 $\mathsf{MF} \amalg$ 

CD-ROM No.SML200206



InteriArt Natural Vision

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SIDE CONTROL PWB PATTERN

# AV32X25EUS / AV32X250EUS / AV32X25EIGY / AV32X25EKGY AV28X25EUS / AV28X25EIGY / AV28X25EKGY

# STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1.SAFETY

The components identified by the \( \triangle \) symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Colour bar signal

(2) Setting positions of

each knob/button and variable resistor : Original setting position

(3)Internal resistance of tester :DC 20kΩ/V

(4)Oscilloscope sweeping time :H  $\Rightarrow$  20µS/div

:V ⇒ 5mS/div :Others ⇒ Sweeping time is specified

when shipped

(5) Voltage values :All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209 → R209

# 4.INDICATIONS ON THE CIRCUIT DIAGRAM (1)Resistors

Resistance value

Rated allowable power

No indication :1/ 16 [W]
Others :As specified

Type

No indication :Carbon resistor

OMR :Oxide metal film resistor

MFR :Metal film resistor

MPR :Metal plate resistor

UNFR :Uninflammable resistor

FR :Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

### (2)Capacitors

Capacitance value

1 or higher :[pF] less than 1 :[ $\mu$ F]

Withstand voltage

No indication :DC50[V]

Others :DC withstand voltage [V]
AC indicated :AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]

TypeNo indication

MM

PP

:Ceramic capacitor :Metalized mylar capacitor :Polypropylene capacitor

MPP :Metalized polypropylene capacitor
MF :Metalized film capacitor

TF :Thin film capacitor
BP :Bipolar electrolytic capacitor
TAN :Tantalum capacitor

(3)Coils

No unit :[ µH]
Others :As specified

(4)Power Supply

:B1 :B2 (12V)

\*Respective voltage values are indicated

#### (5)Test point

:Test point :Only test point display

### (6)Connecting method



### (7)Ground symbol

 $\bot$  :LIVE side ground

:ISOLATED(NEUTRAL) side ground

≟ :EARTH ground

### **5.NOTE FOR REPAIRING SERVICE**

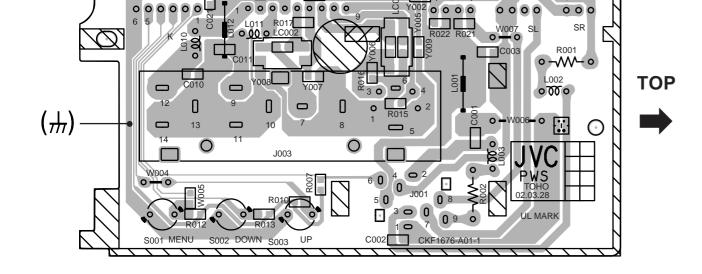
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: ( $\bot$ ) side GND and the ISOLATED(NEUTRAL): ( $\bot$ ) side GND.Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

## NOTE

Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.



4 S 1

3

### AV32X25EUS / AV32X250EUS AV32X25EIGY / AV32X25EKGY AV28X25EUS / AV28X25EIGY / AV28X25EKGY

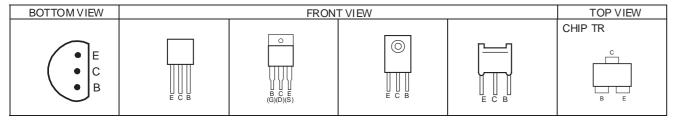
### FRONT CONTROL PWB PATTERN

# **CONTENTS**

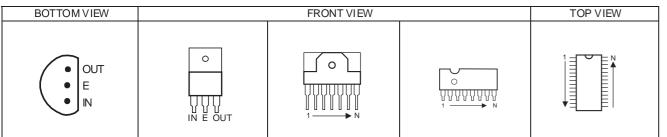
SEMICONDUCTOR SHAPES ····································	2-2
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PATTERN DIAGRAMS	
POWER & DEF PWB PATTERN	

# **SEMICONDUCTOR SHAPES**

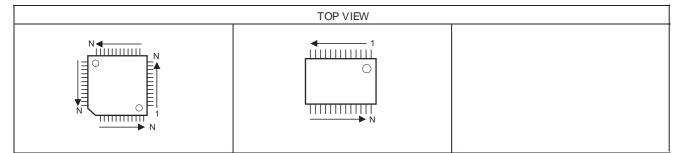
### **TRANSISTOR**

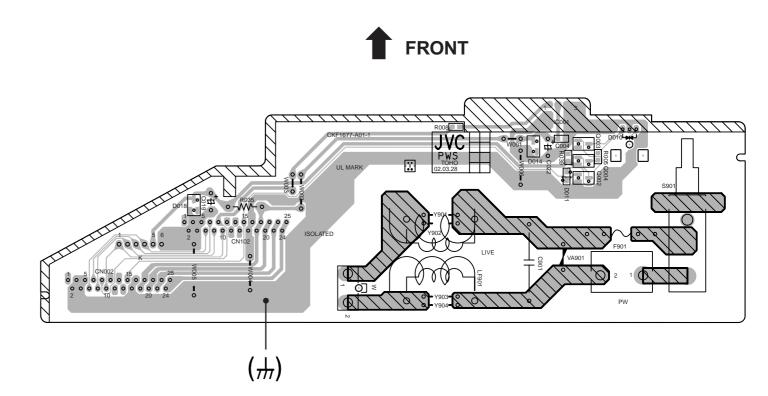


IC



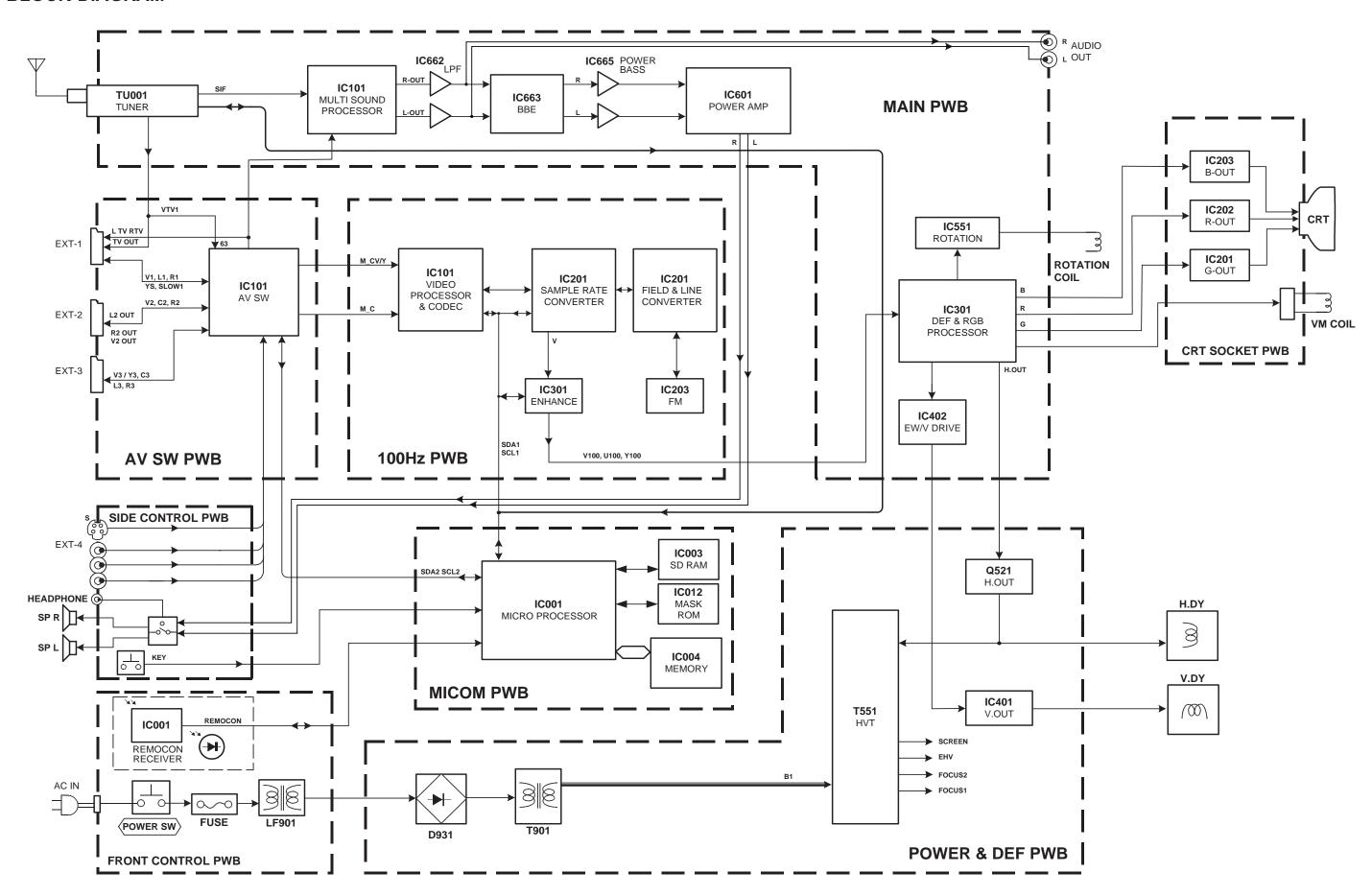
## CHIP IC



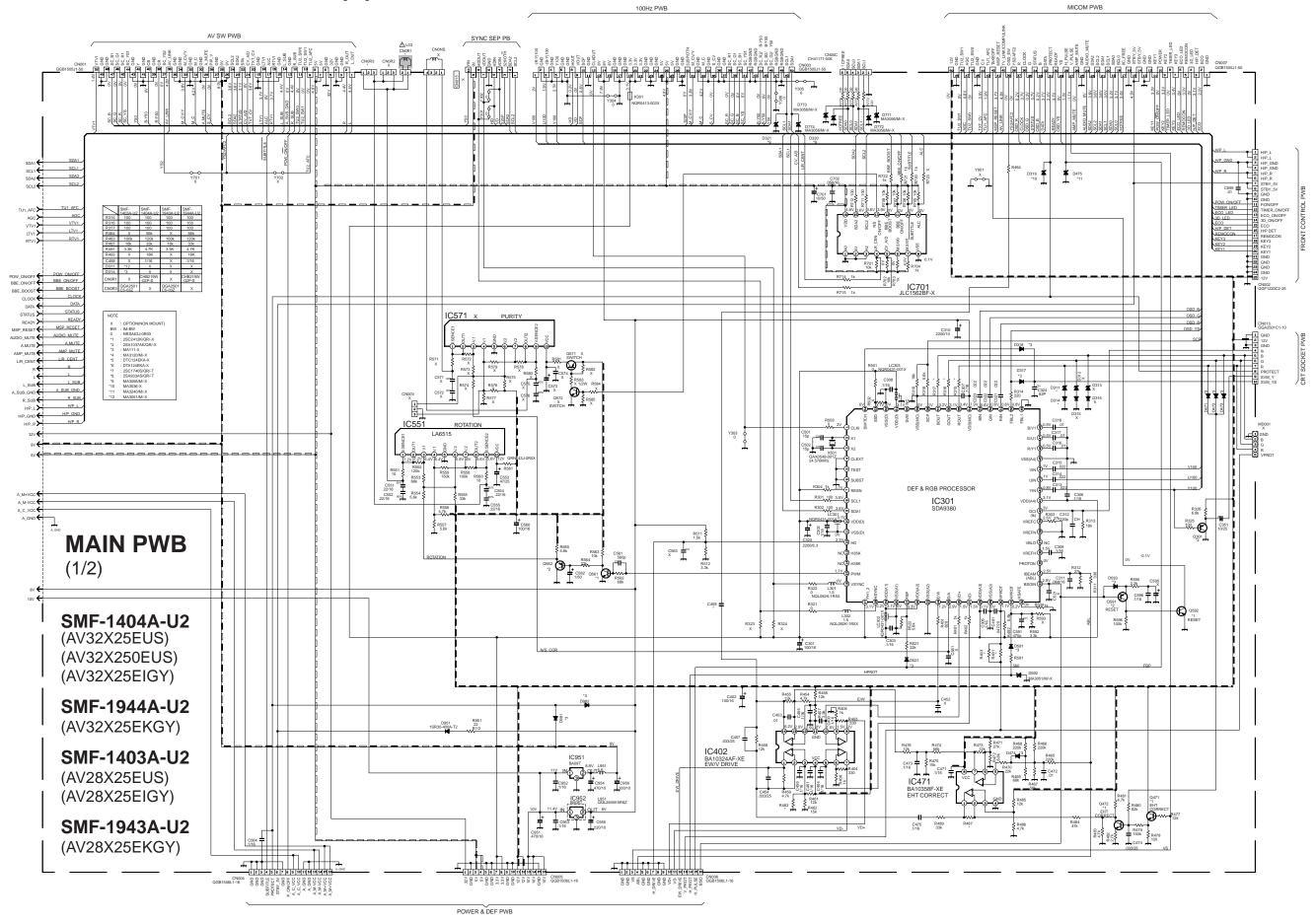


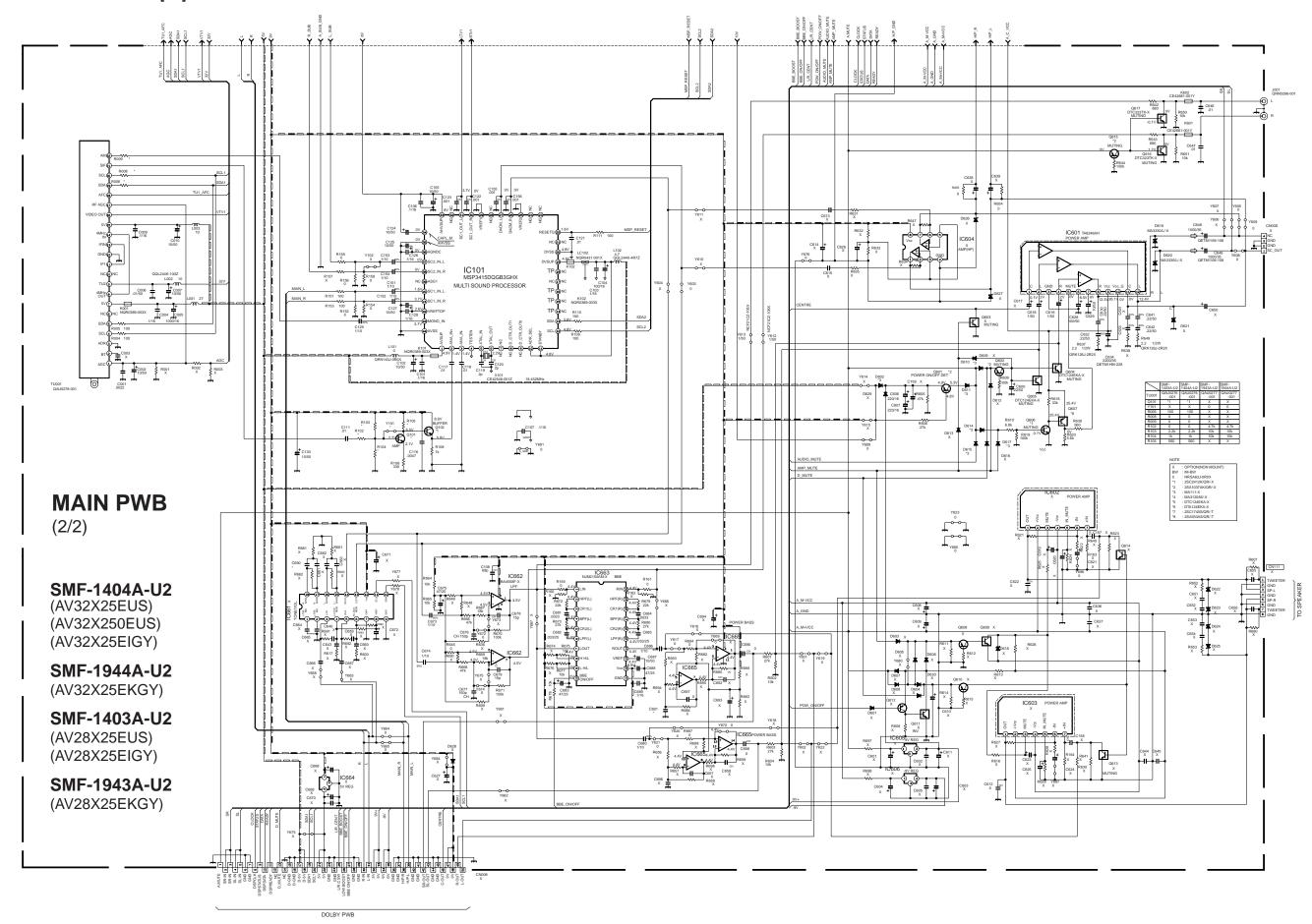
2-2 No.51994 2-31

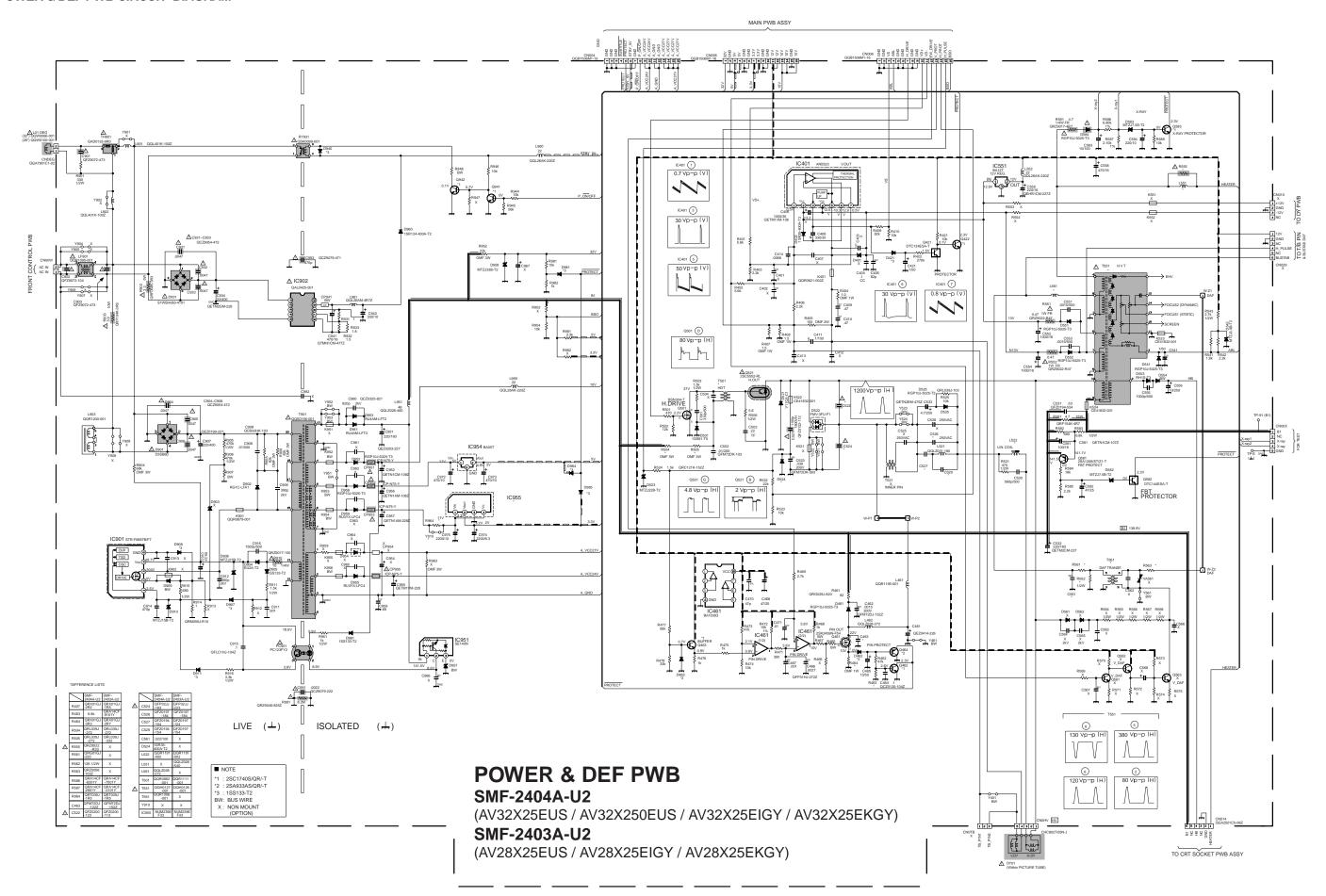
# **BLOCK DIAGRAM**

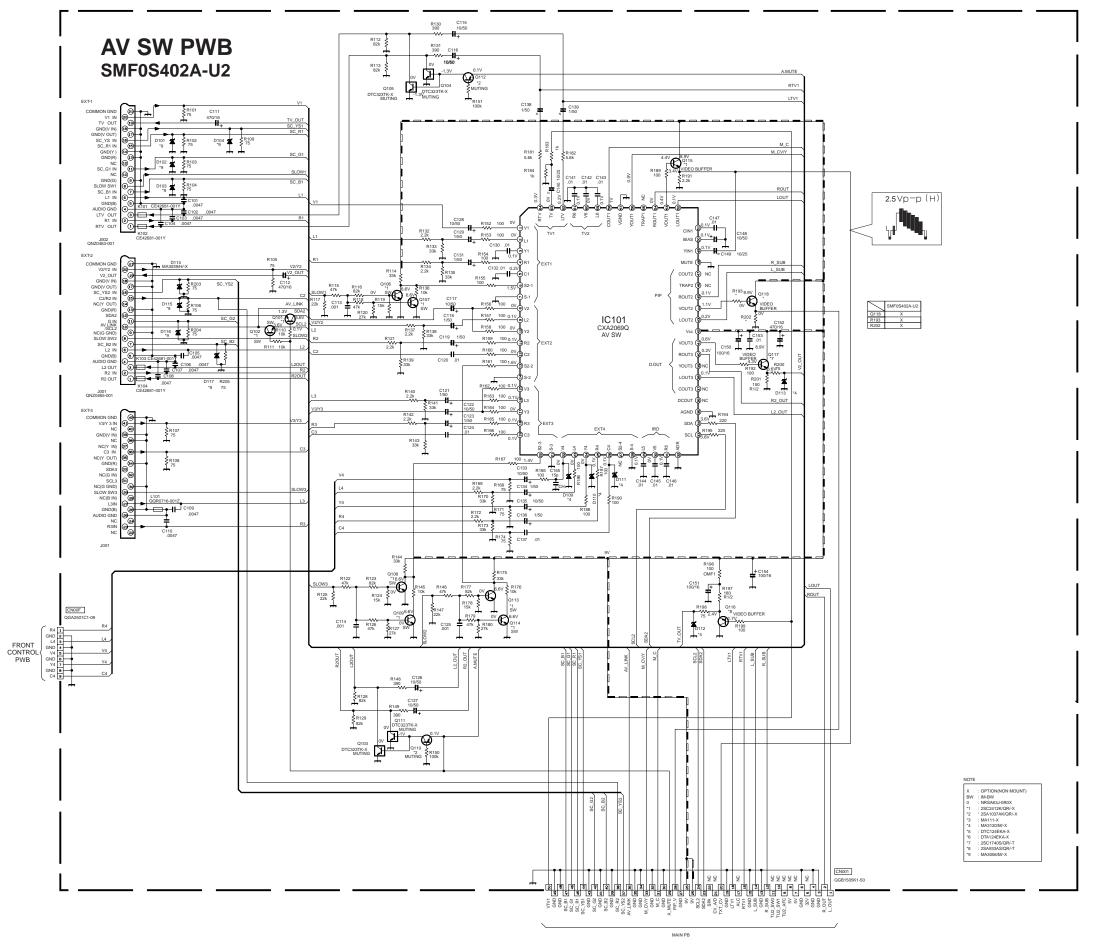


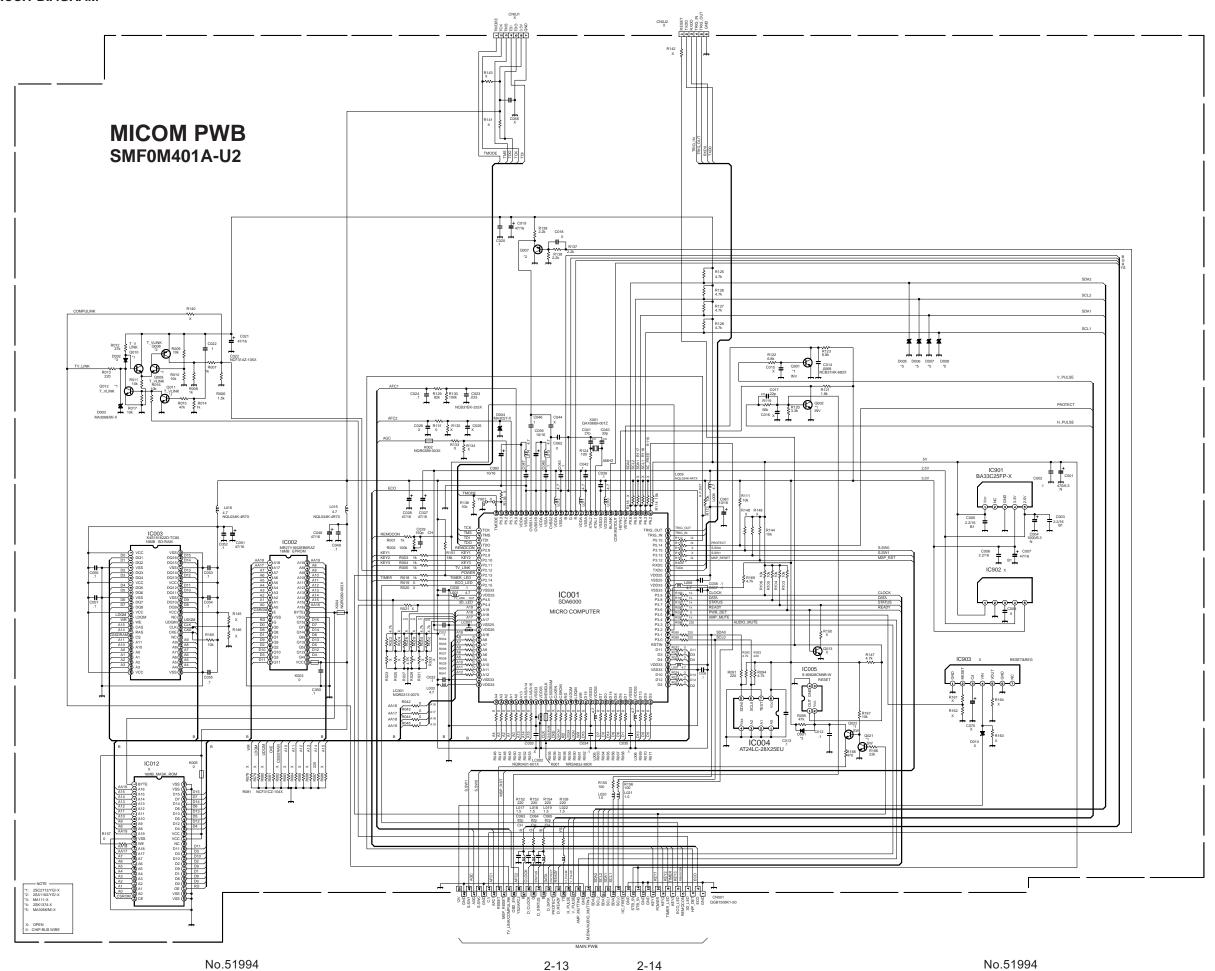
# CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM [1/2]

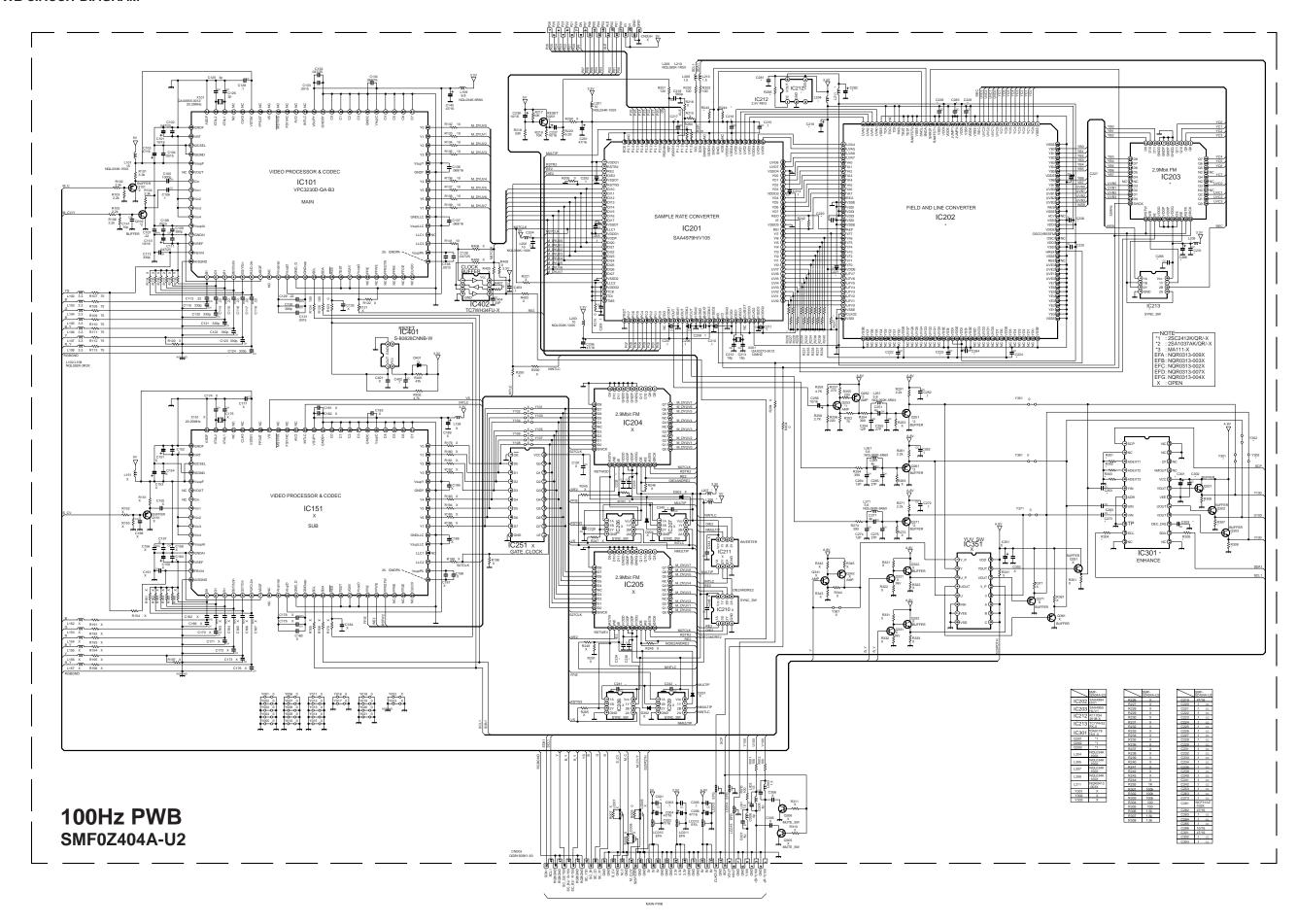


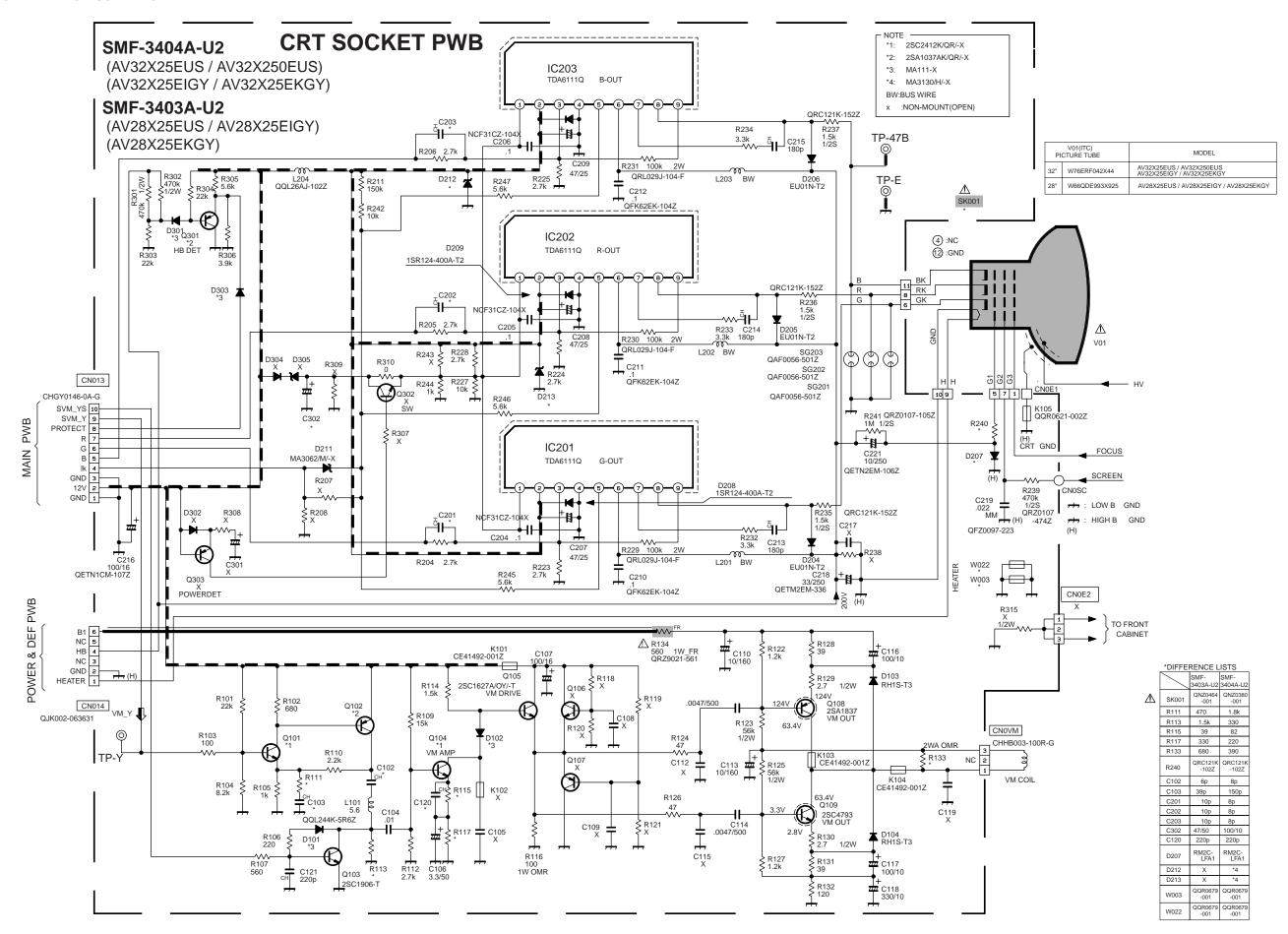








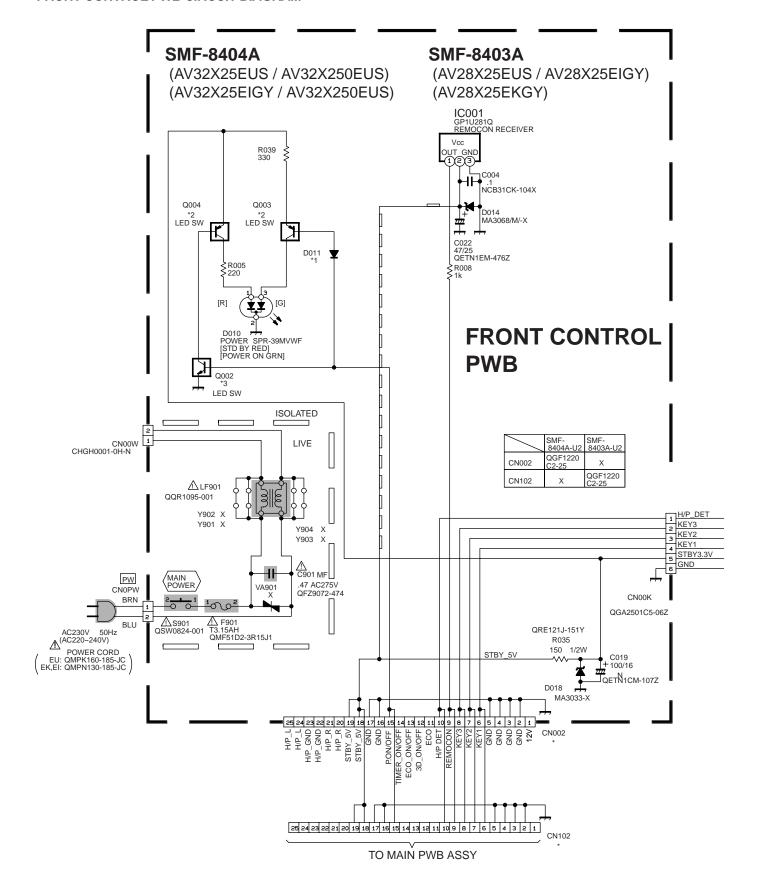




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SIDE CONTROL PWB CIRCUIT DIAGRAM

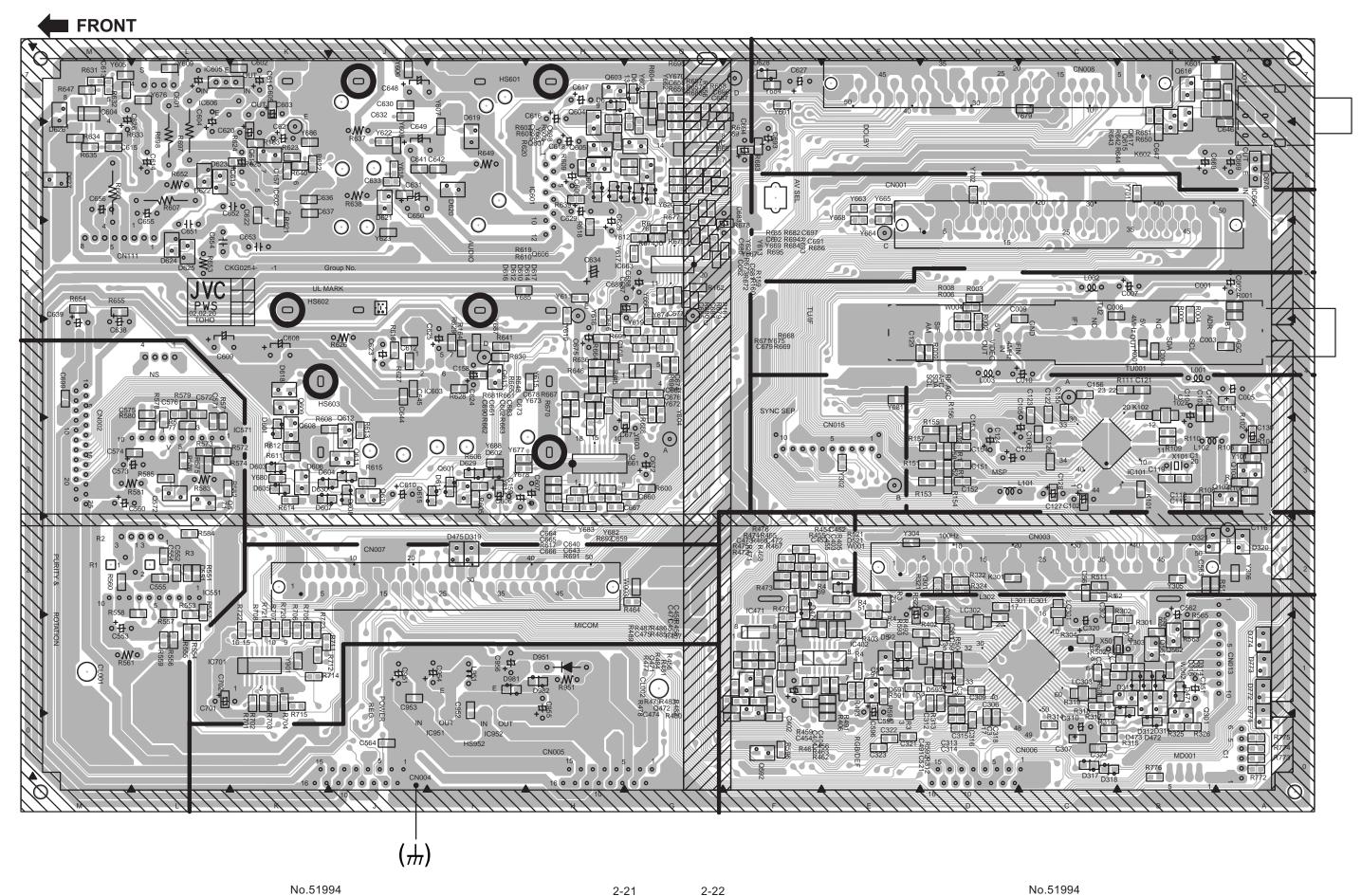
### FRONT CONTROL PWB CIRCUIT DIAGRAM



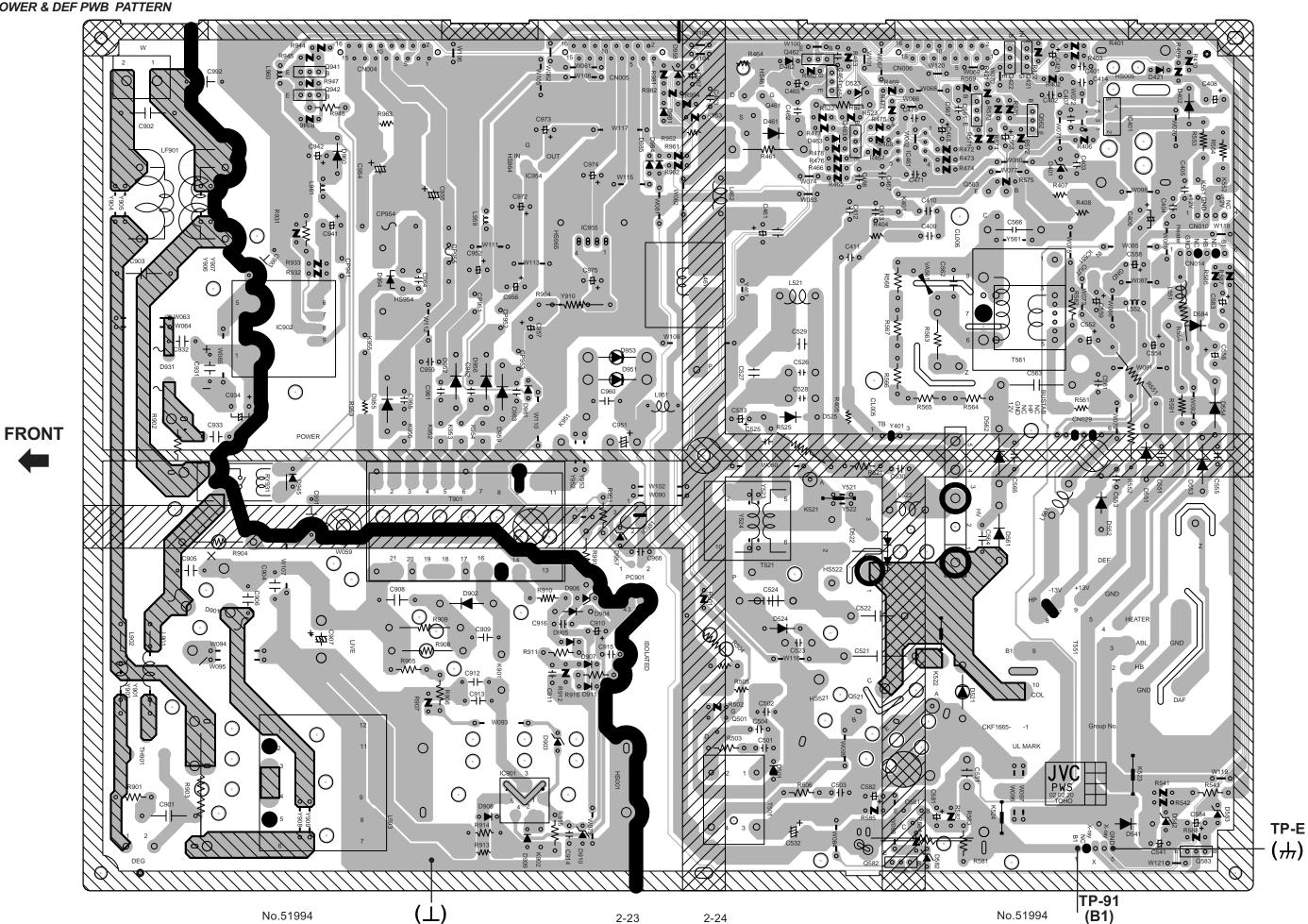
## SIDE CONTROL PWB SMF-8104A-U2 (AV32X25EUS / AV32X250EUS / AV32X25EIGY / AV32X25EKGY) SMF-8103A-U2 (AV28X25EUS / AV28X25EIGY / AV28X25EKGY) S001~S003 QSW0619-003Z MENU R012 10k J003 QMS3001-C01 QNZ0438-001 S001 HEADPHONE JACK V/4IN CH DOWN R013 R4IN L4IN S002 CH UP R010 <del>| - -</del> S003 C001 .01 C010 .0047 C011 .0047 C002 Y005 Y006 .01 R007 Y009 L001 QQR0716-001Z Y008 R022 1k R021 Y002 1 2 3 4 5 6 7 8 9 QGA2501C1-09 C003 CN00F 68p CH 8103A-U2 8104A-U2 QJB003-042834 QJB003-CN00S NOTE CN00K QGA2501C5-06Z MA111-X DTA124EKA-X DTC124EKA-X CN0SR QGA2501C5-03Z 4 3 2 1 -ds R SP CN00S QGA2501C5-04Z

CN0SL QGA2501C5-04Z

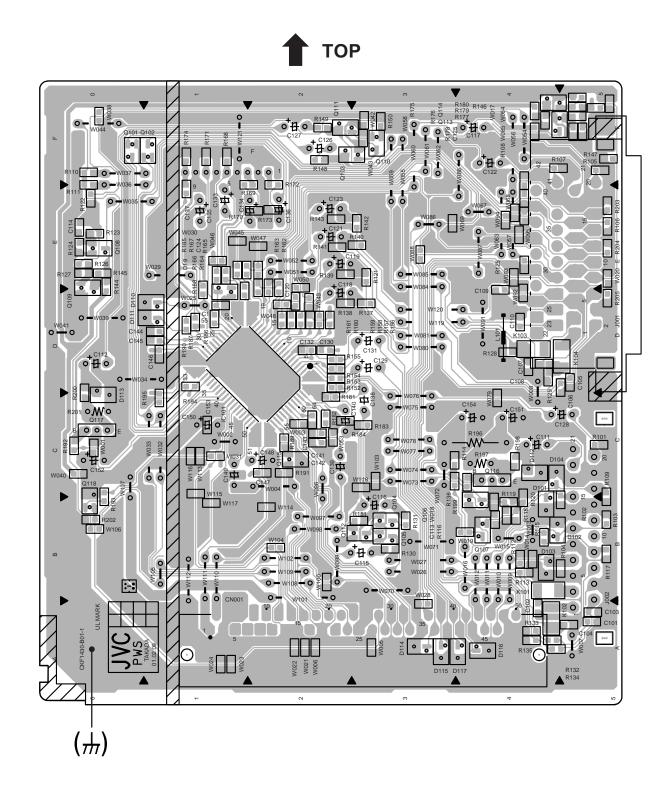
## PATTERN DIAGRAMS MAIN PWB PATTERN

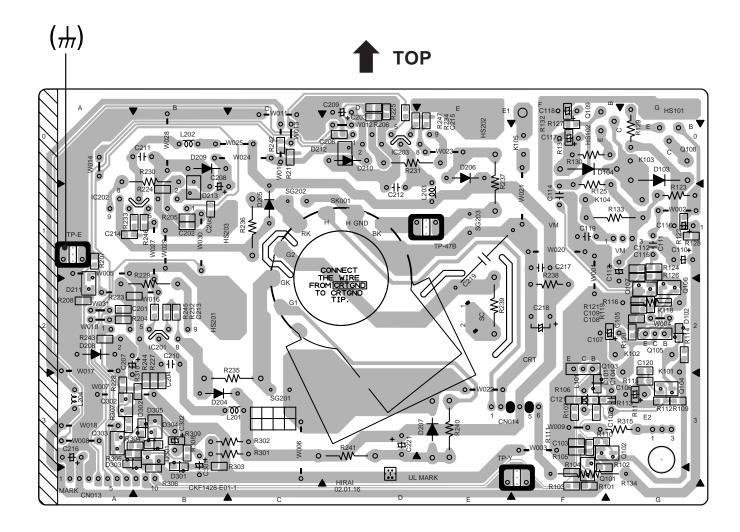


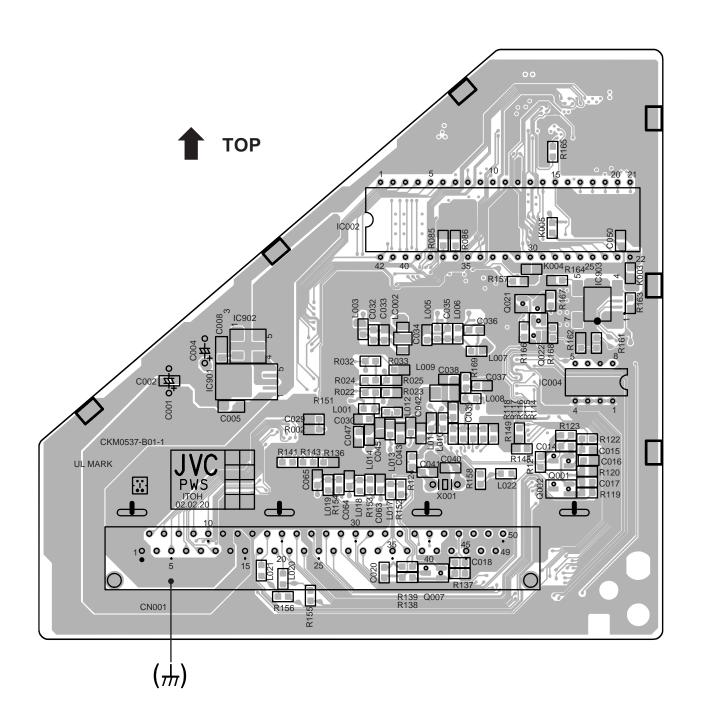
### POWER & DEF PWB PATTERN

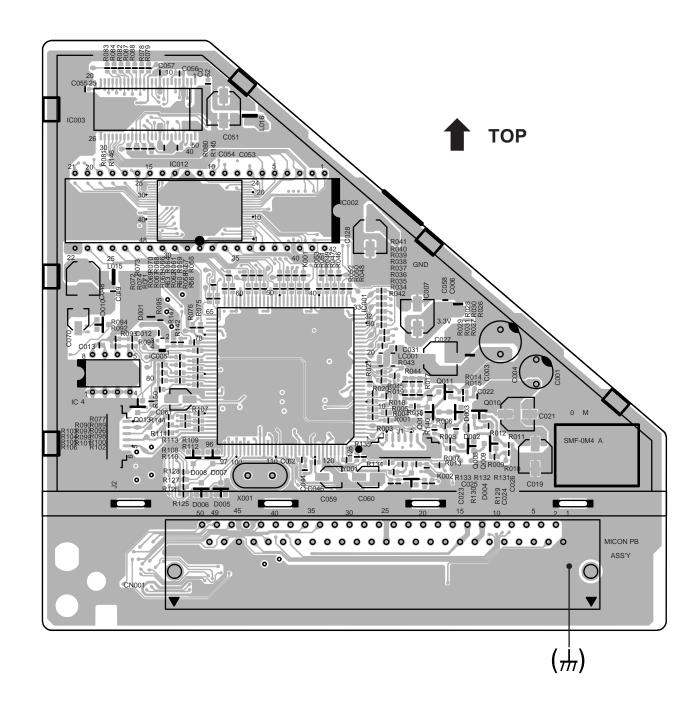


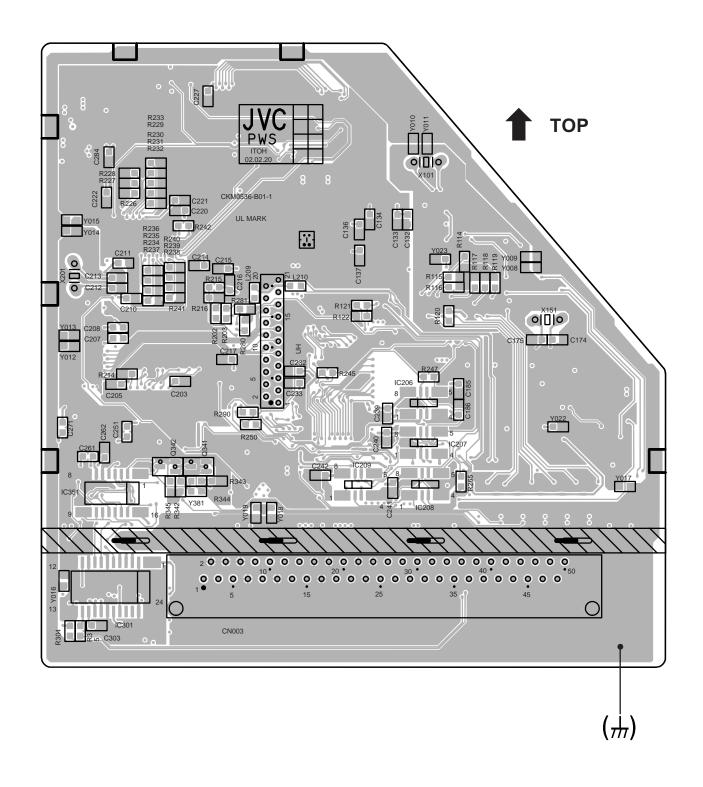
### CRT SOCKET PWB PATTERN

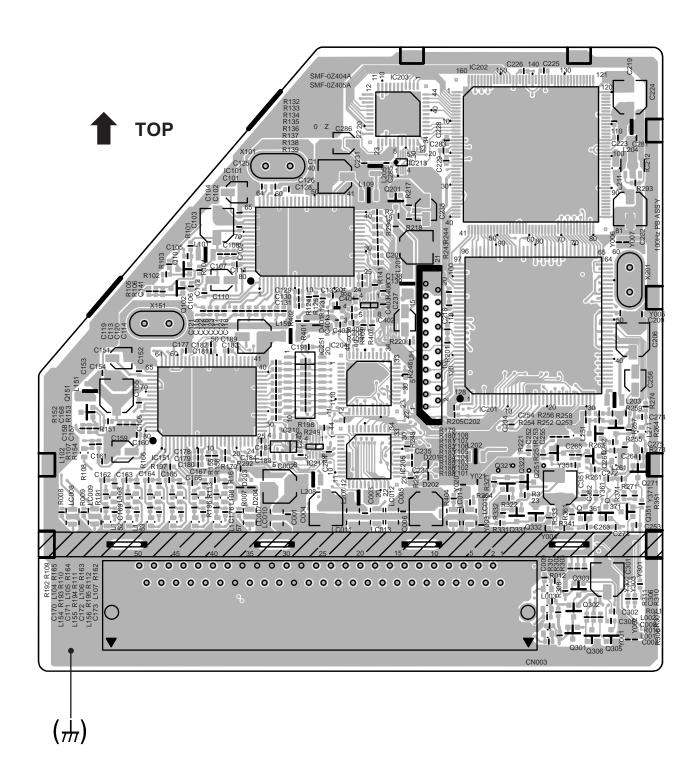














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